

FIG.1

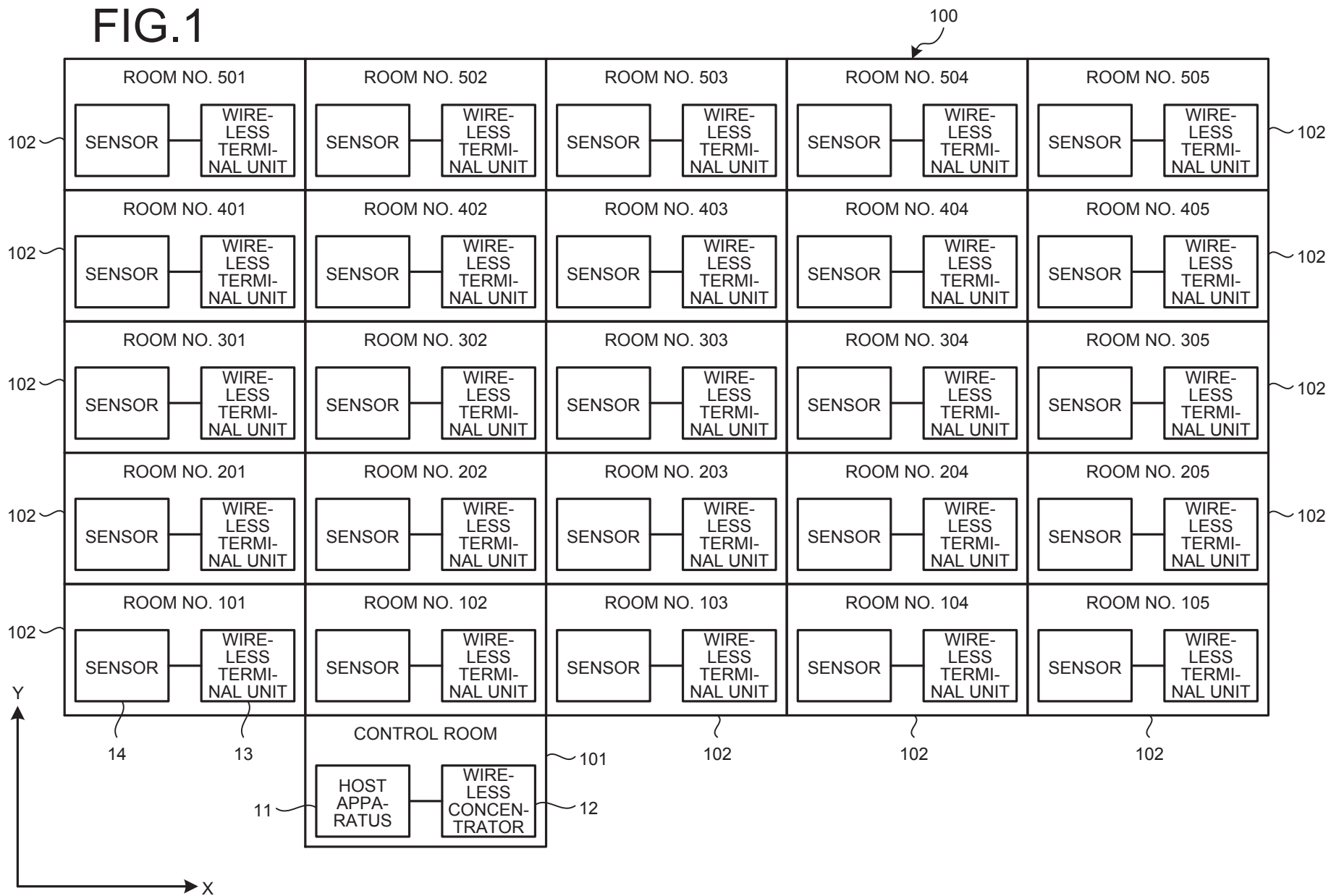


FIG.2

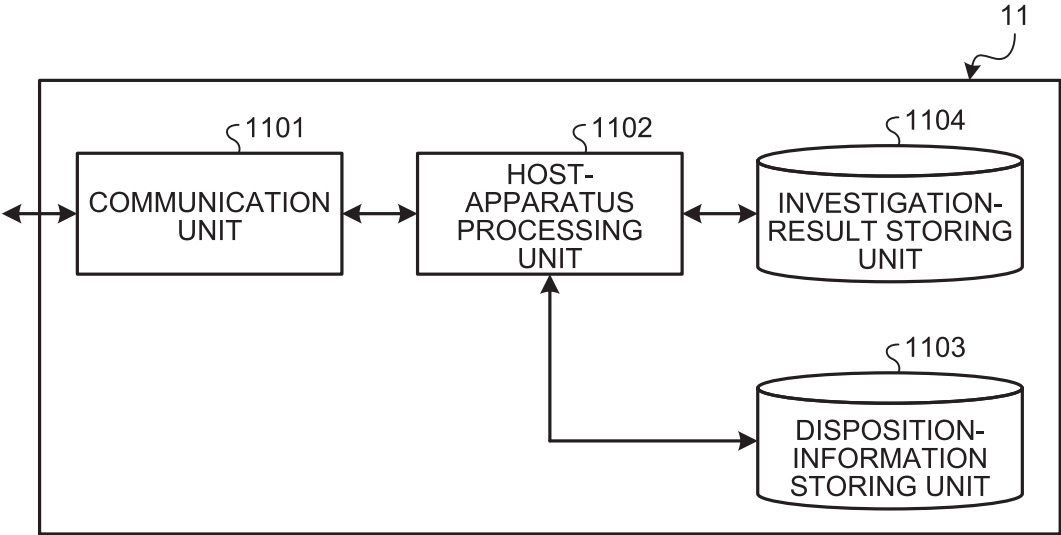


FIG.3

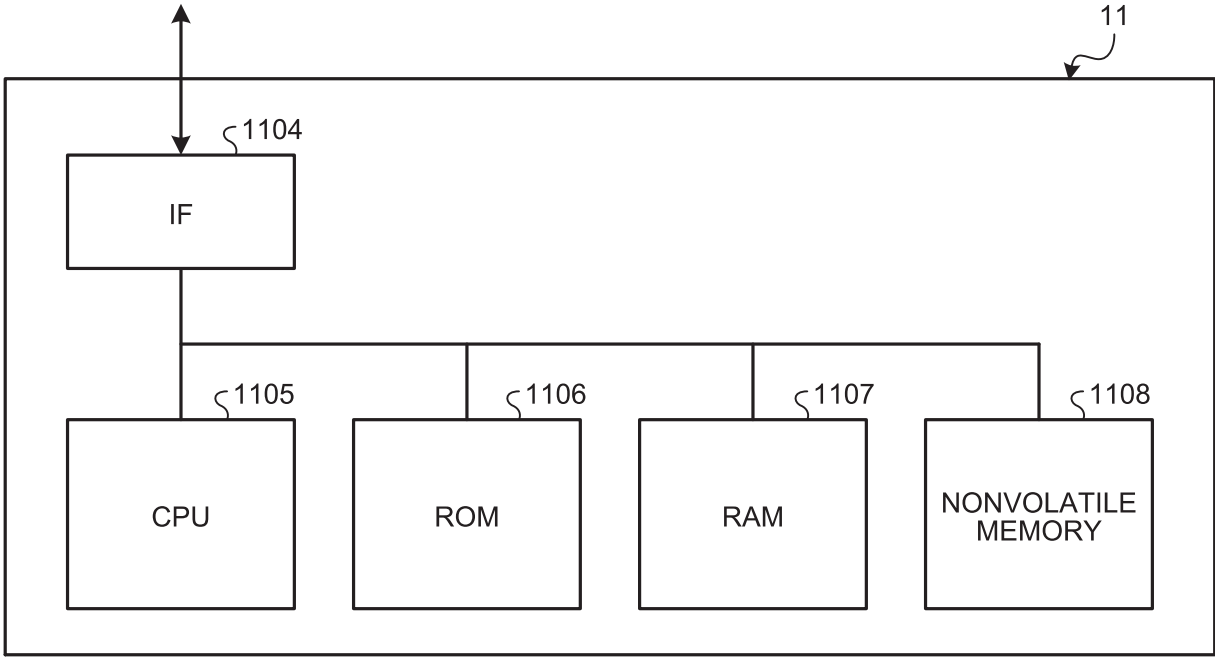


FIG.4

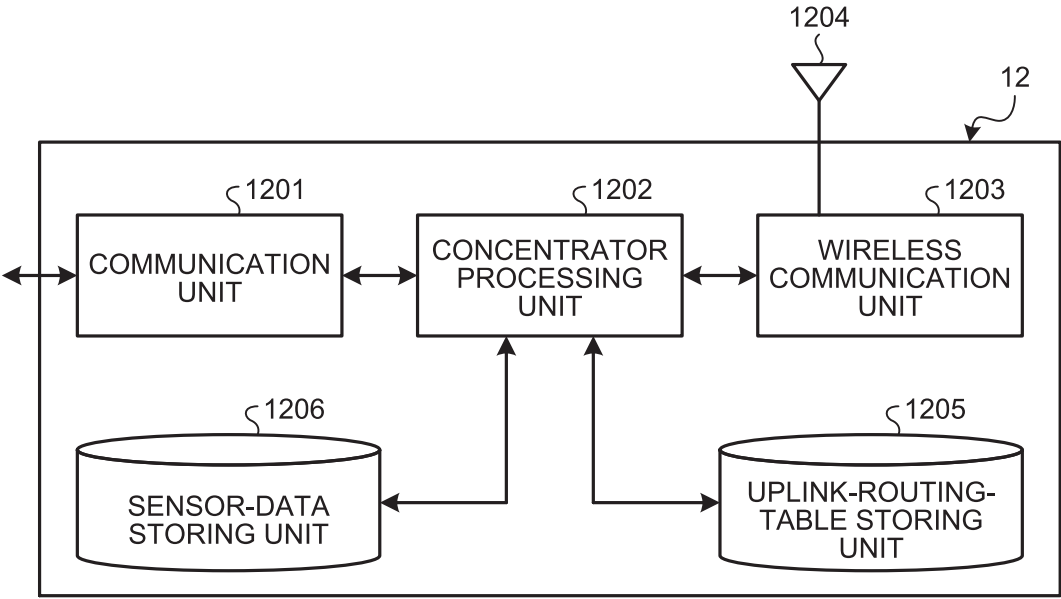


FIG.5

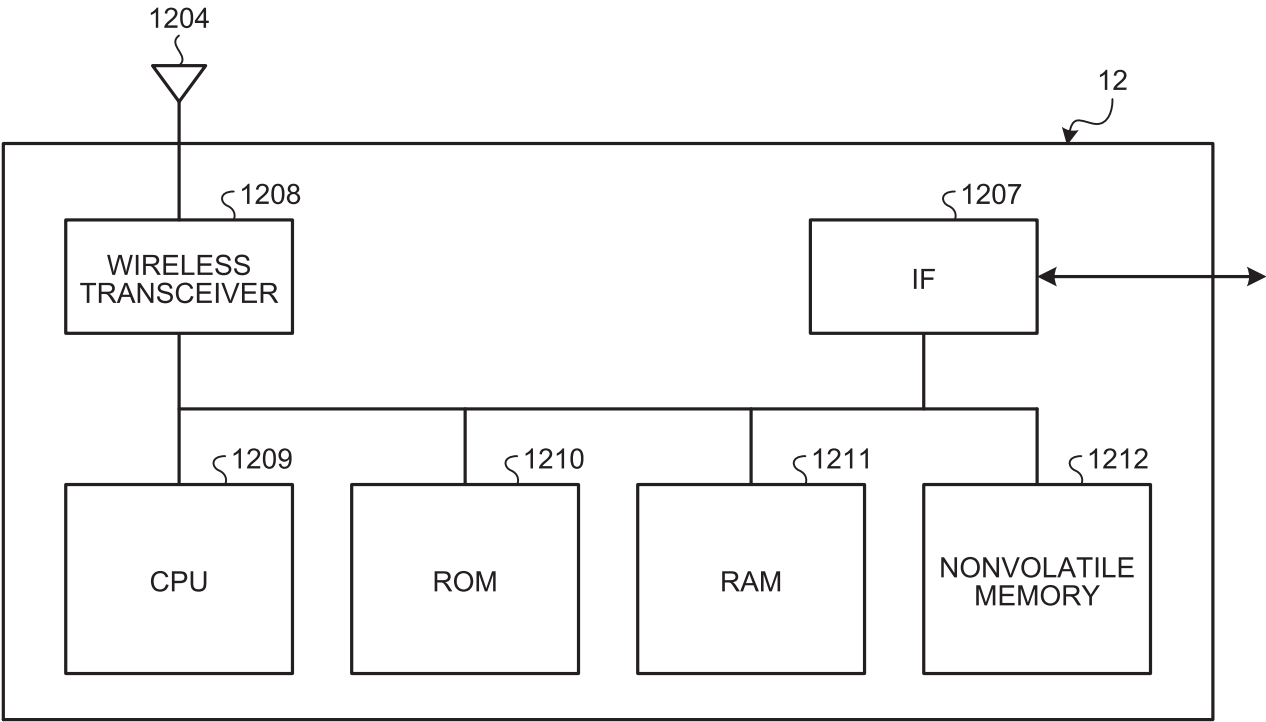


FIG.6

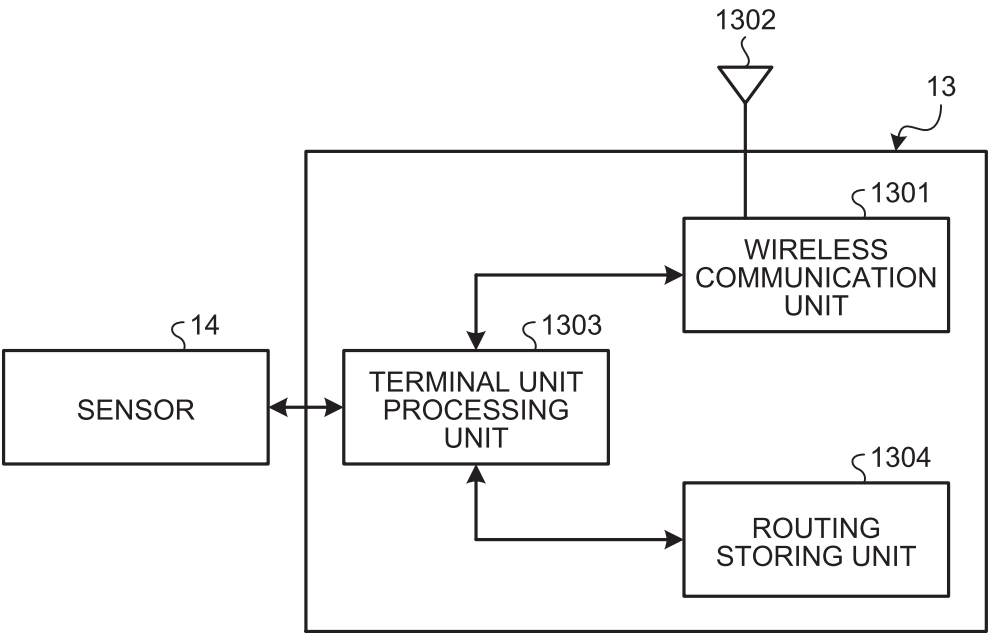


FIG.7

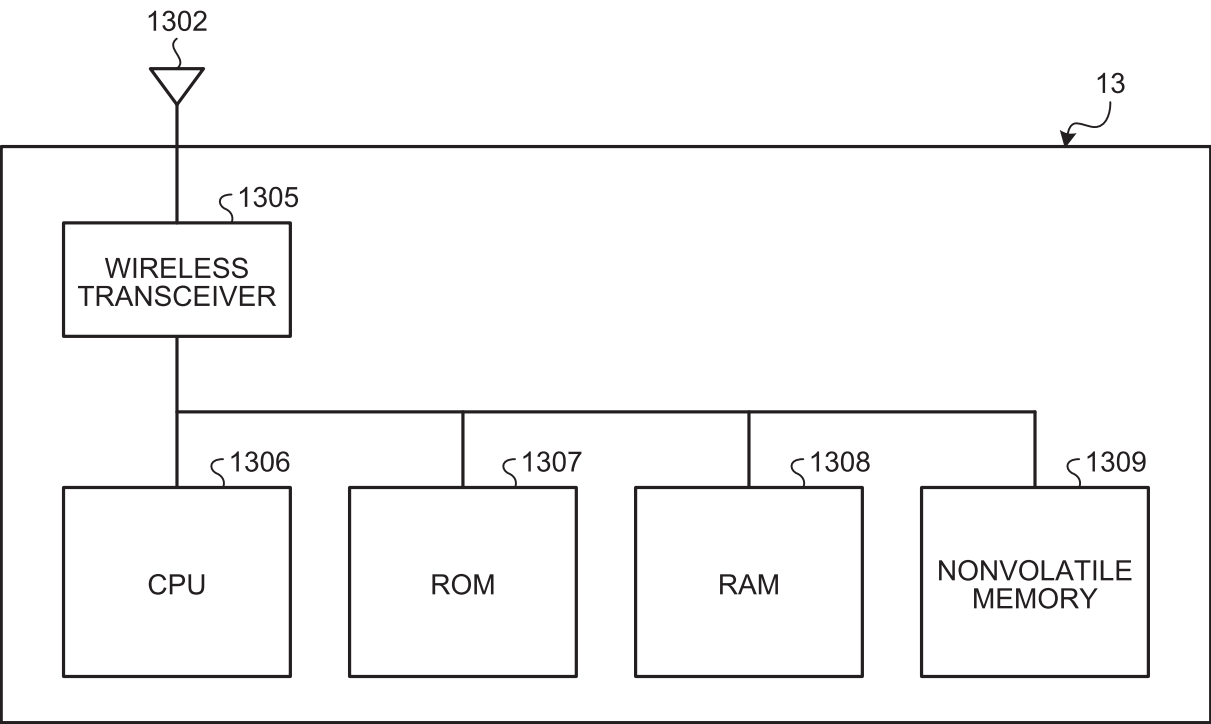


FIG.8

TRANSMISSION DESTINATION WIRELESS TERMINAL UNIT	WIRELESS TERMINAL UNIT AT VIA- DESTINATION
13-101	-
13-102	-
13-103	-
13-104	13-103
⋮	⋮
13-302	13-102
⋮	⋮
13-502	13-102, 13-302
⋮	⋮
13-505	13-103, 13-104, 13-204, 13-205, 13-305

FIG.9

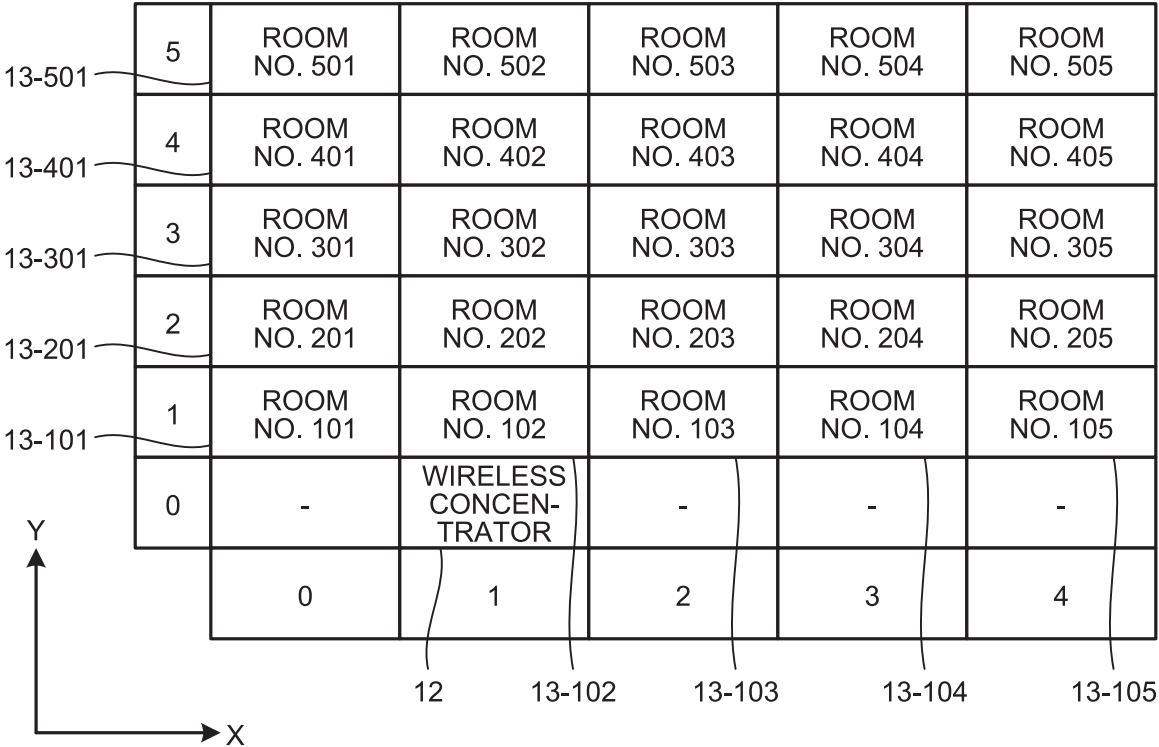


FIG.10

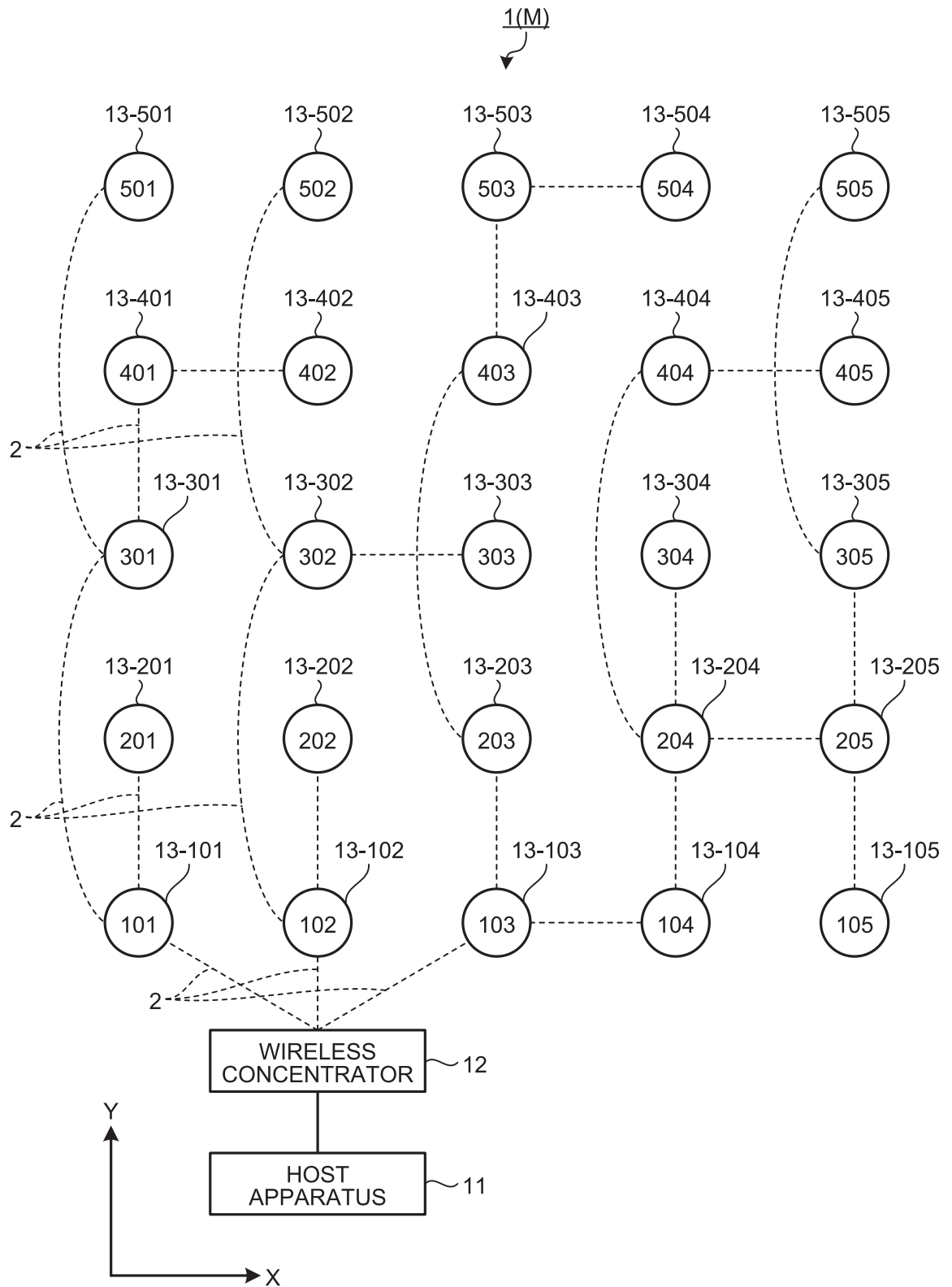


FIG.11

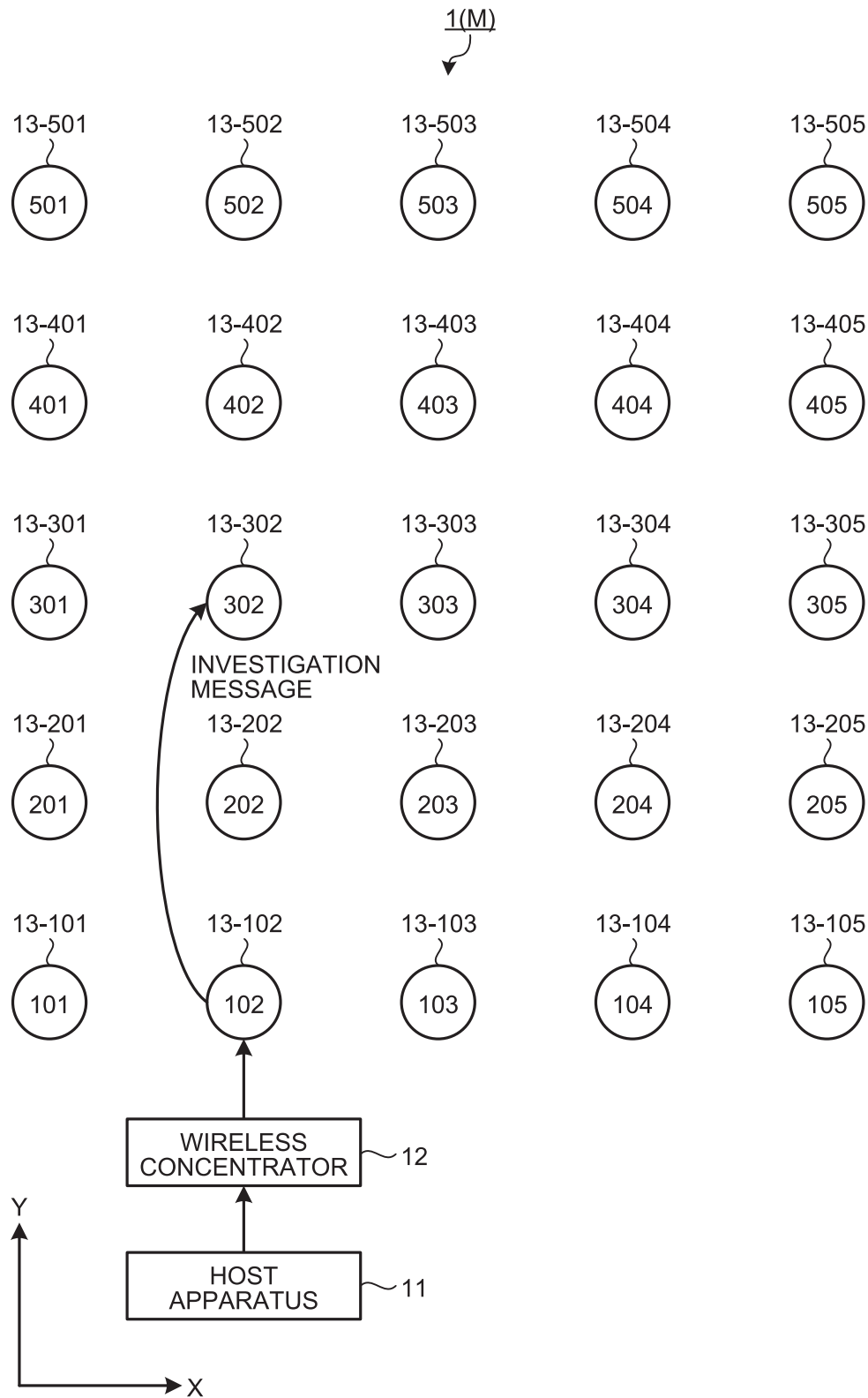


FIG.12

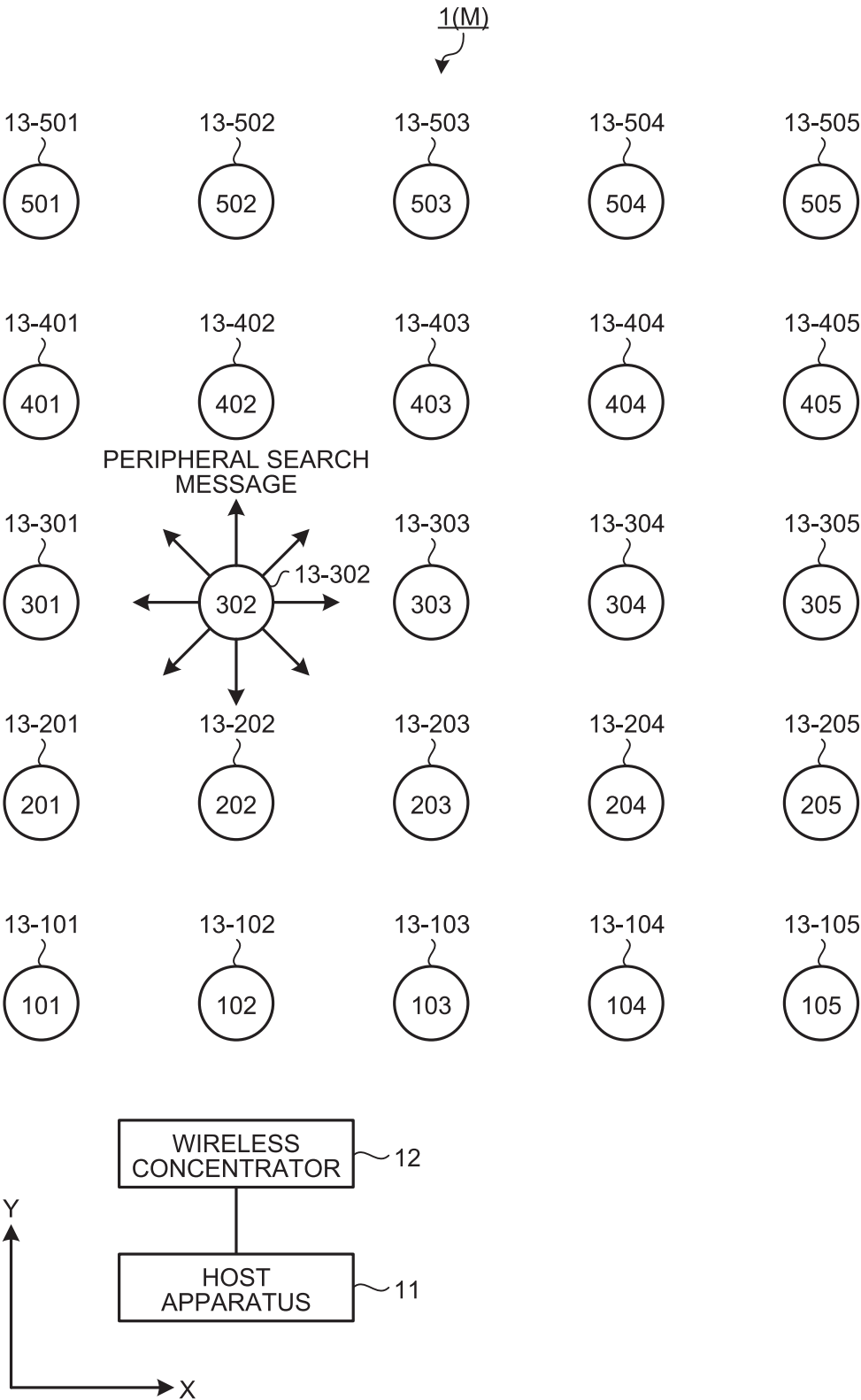


FIG.13

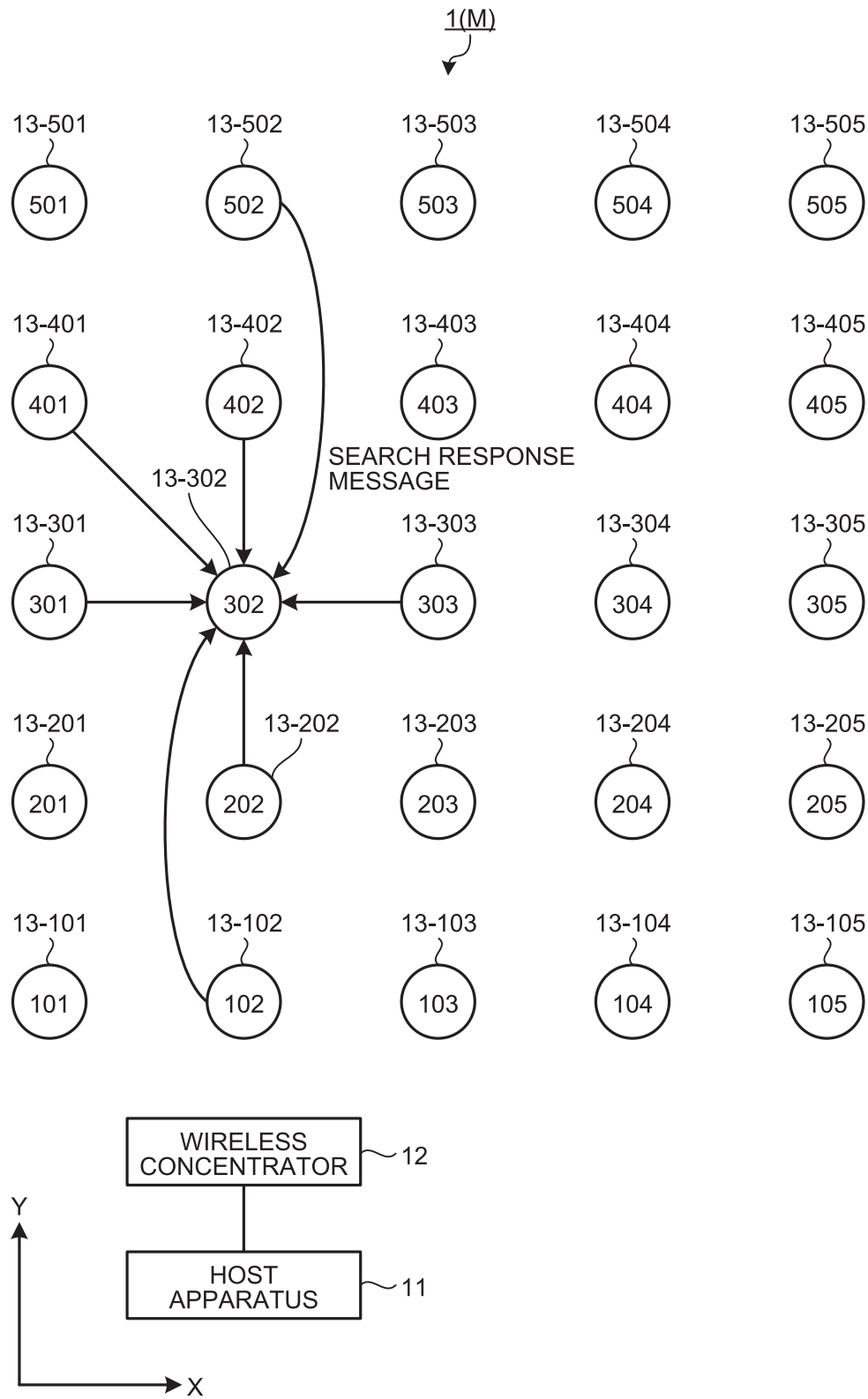


FIG.14

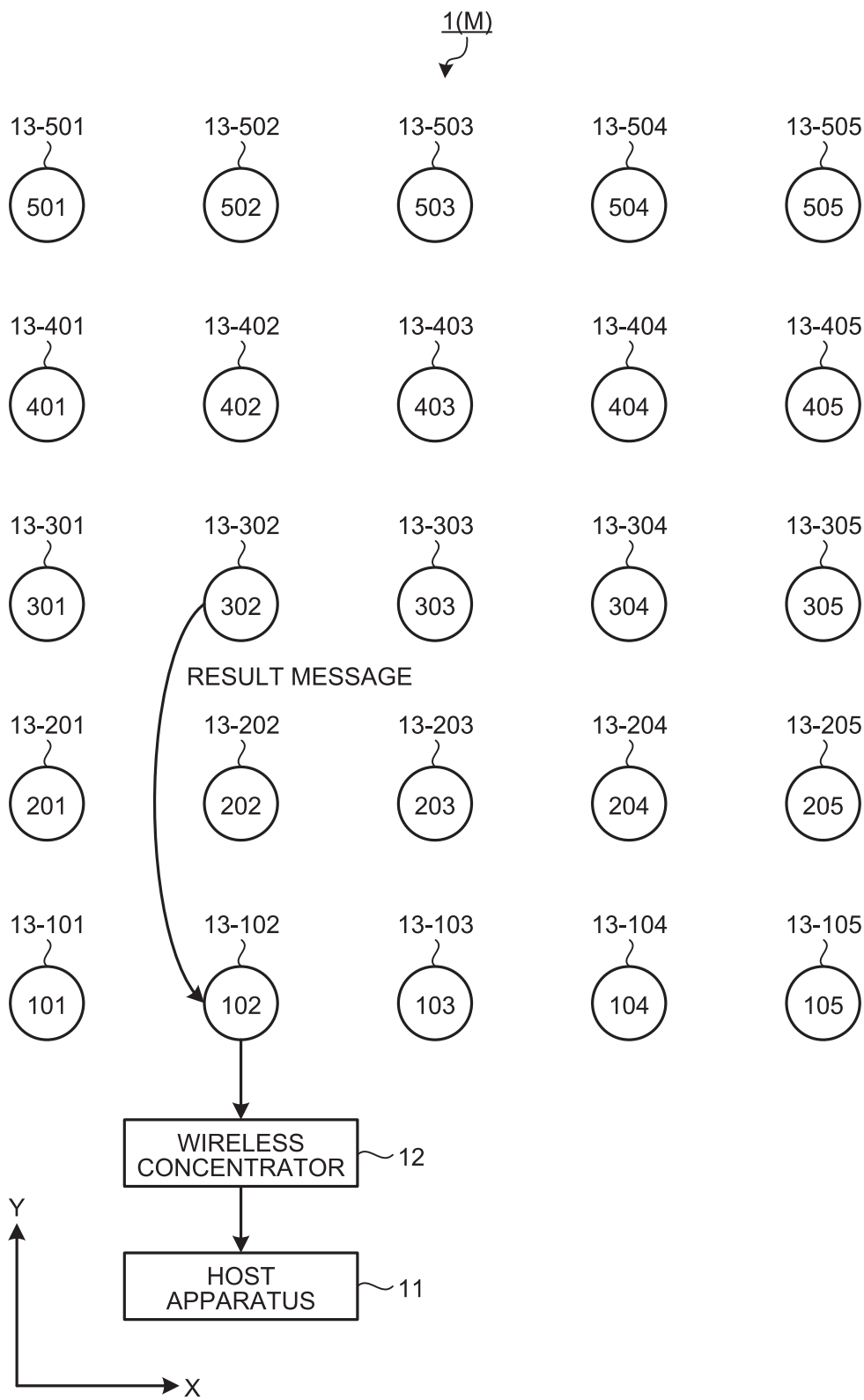


FIG.15

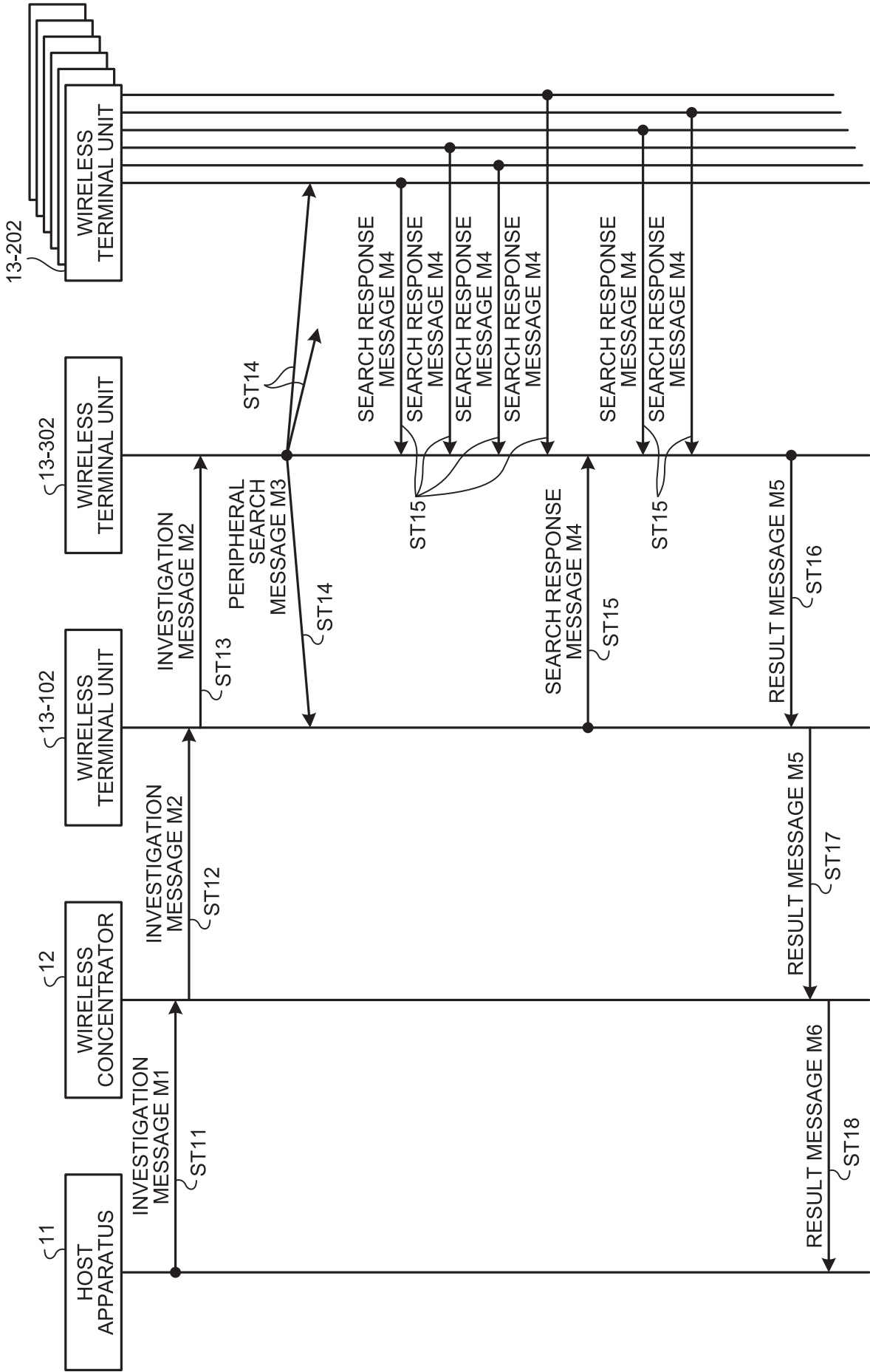


FIG.16

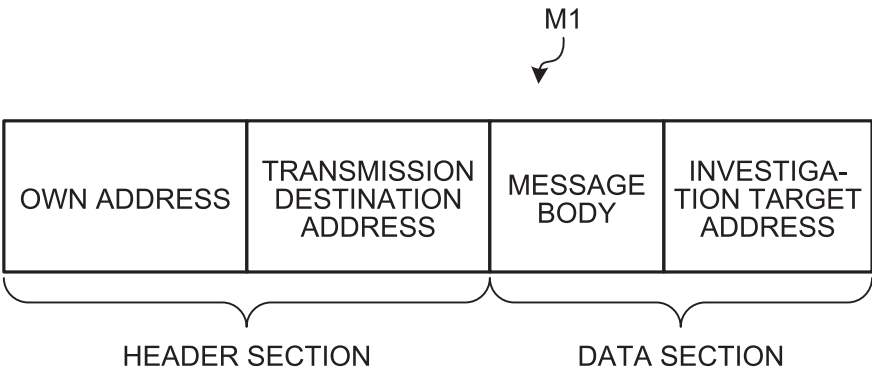


FIG.17

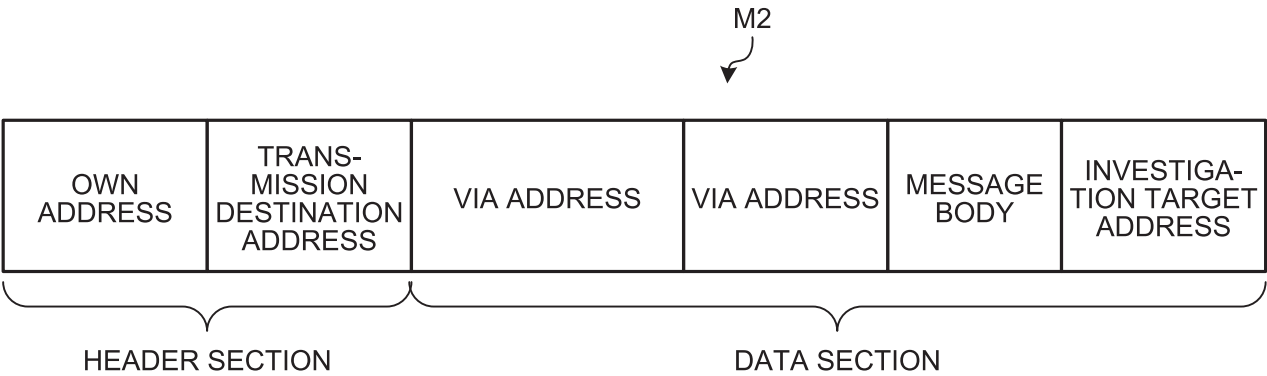


FIG.18

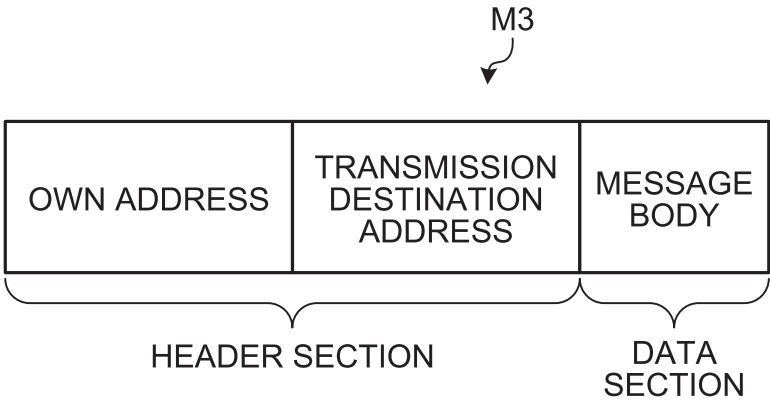


FIG.19

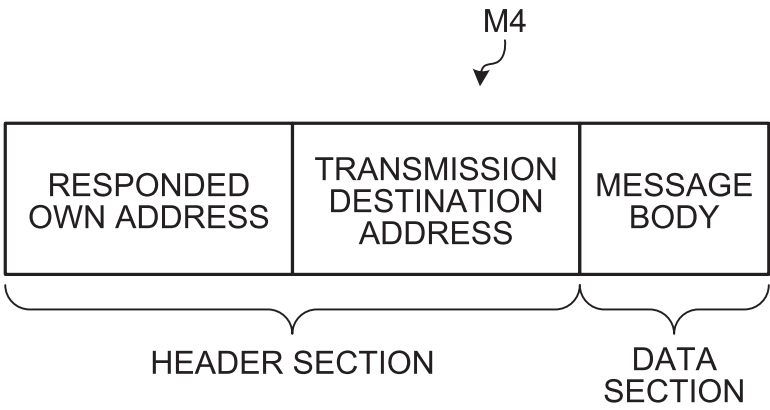


FIG.20

M5

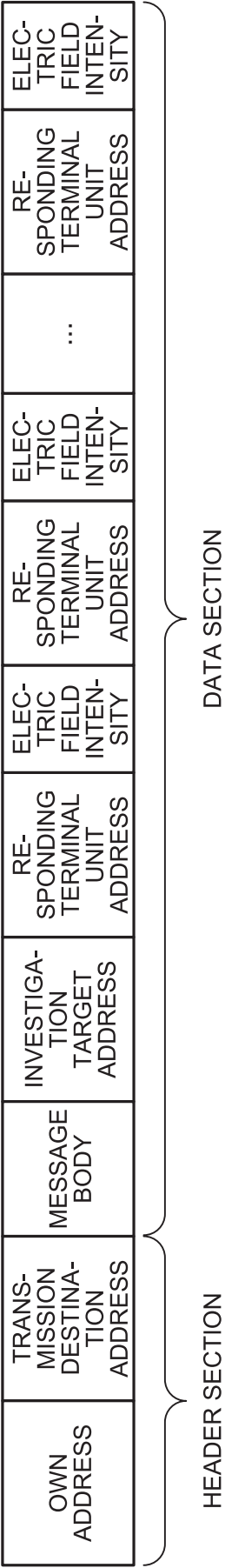


FIG.21

M6

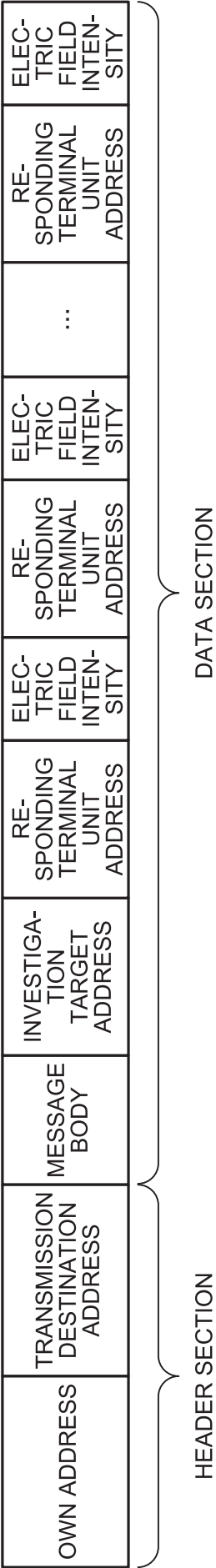


FIG.22

WIRELESS ADDRESS	COMMUNICABLE WIRELESS ADDRESS
302	102
	202
	301
	303
	402
	502

FIG.23

WIRELESS ADDRESS	PRESENCE OR ABSENCE OF INVESTIGATION	COMMUNICABLE WIRELESS ADDRESS
102	RESPONDED	302
202	RESPONDED	302
301	RESPONDED	302
302	INVESTIGATED	102, 202, 301, 303, 402, 502
303	RESPONDED	302
402	RESPONDED	302
502	RESPONDED	302

FIG.24

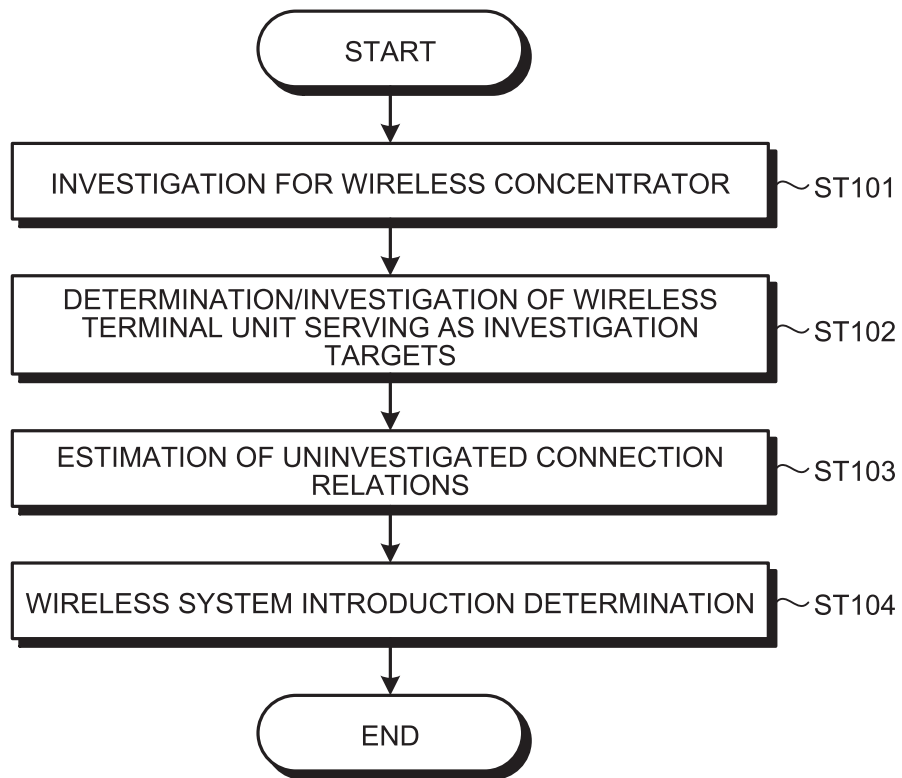


FIG.25

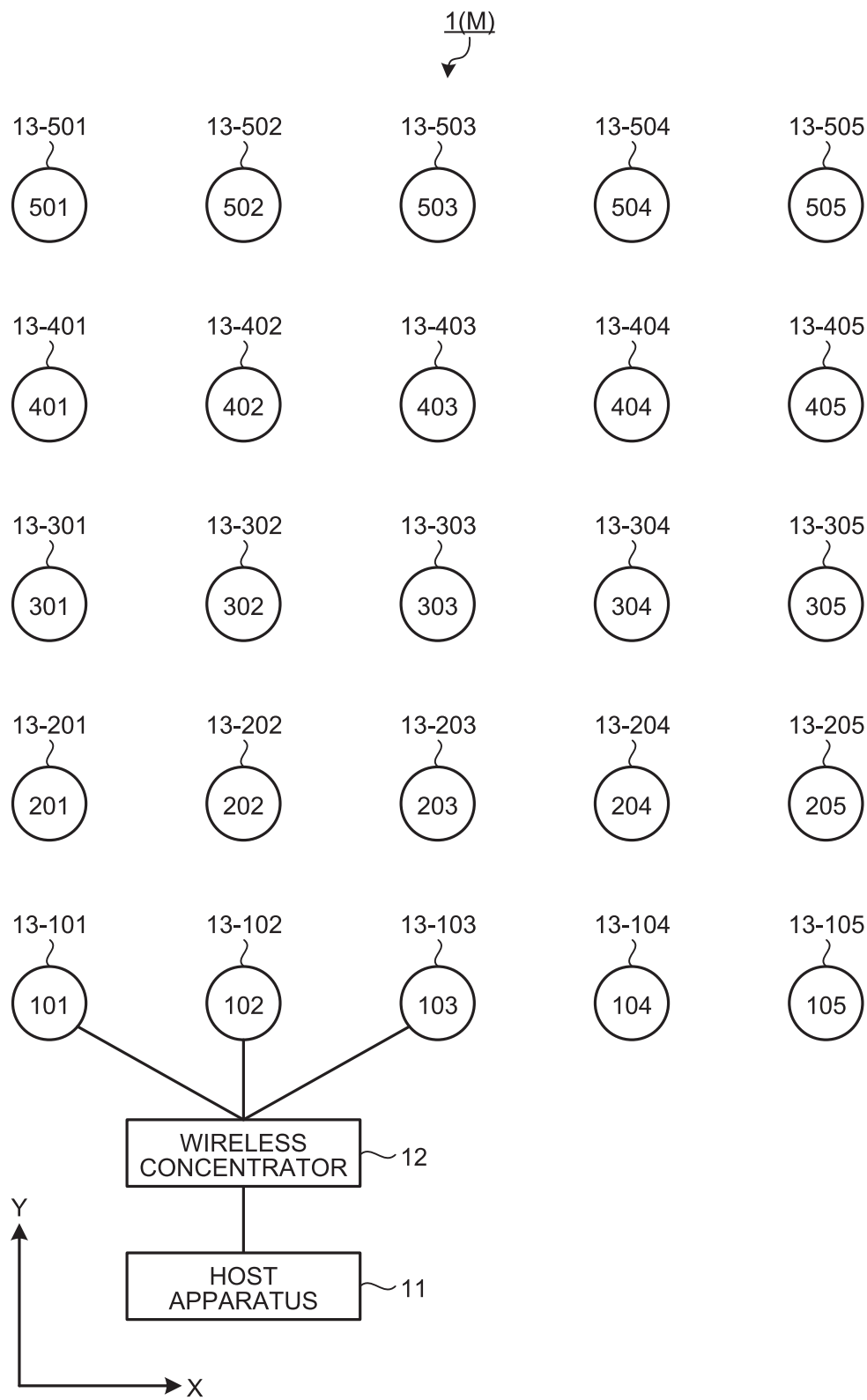


FIG.26

WIRELESS ADDRESS	PRESENCE OR ABSENCE OF INVESTIGATION	ESTIMATION	COMMUNICABLE WIRELESS ADDRESS
CONCENTRATOR	INVESTIGATED	-	101,102,103
101	RESPONDED	-	CONCENTRATOR
102	RESPONDED	-	CONCENTRATOR
103	RESPONDED	-	CONCENTRATOR

21/43

FIG.27

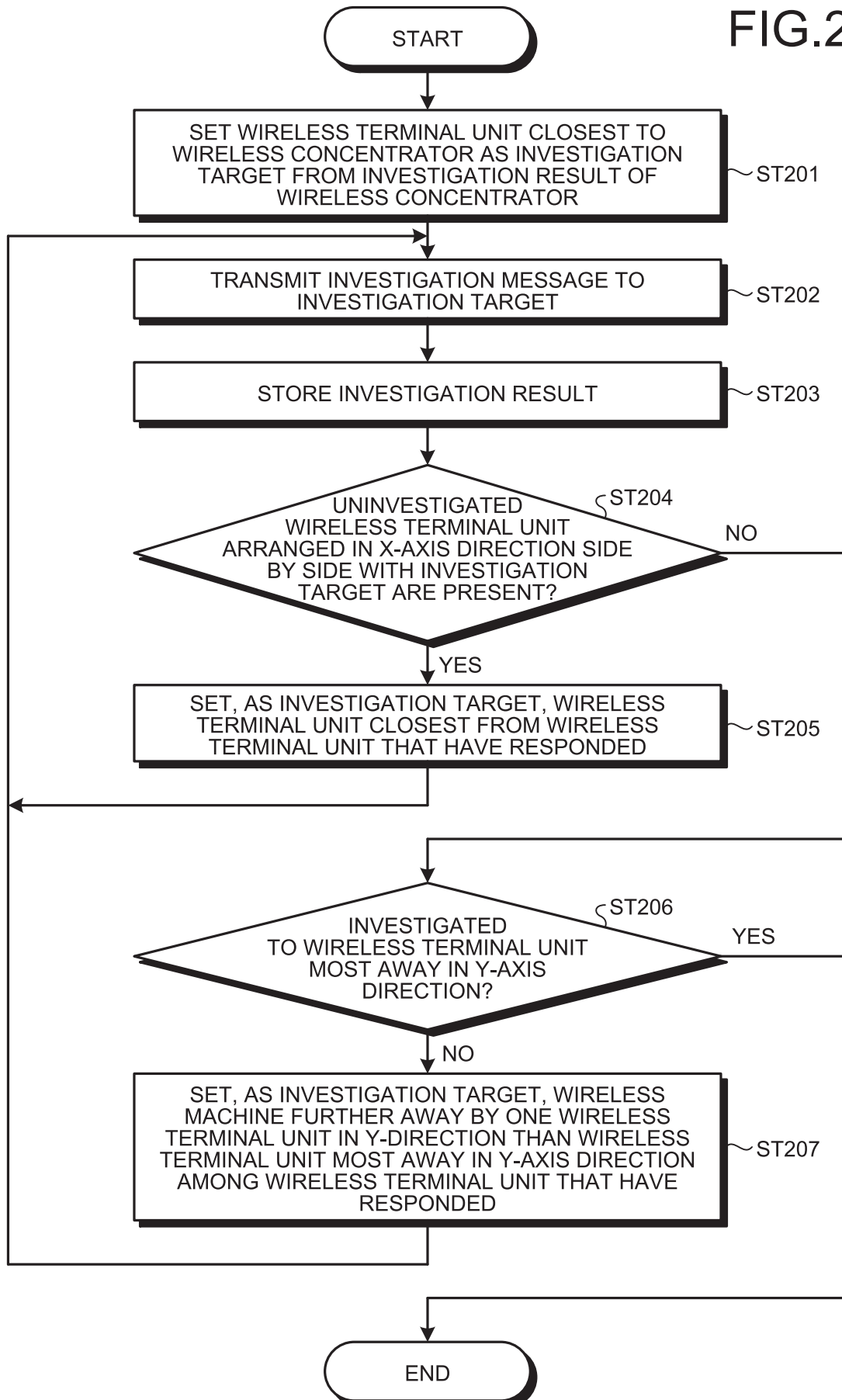


FIG.28

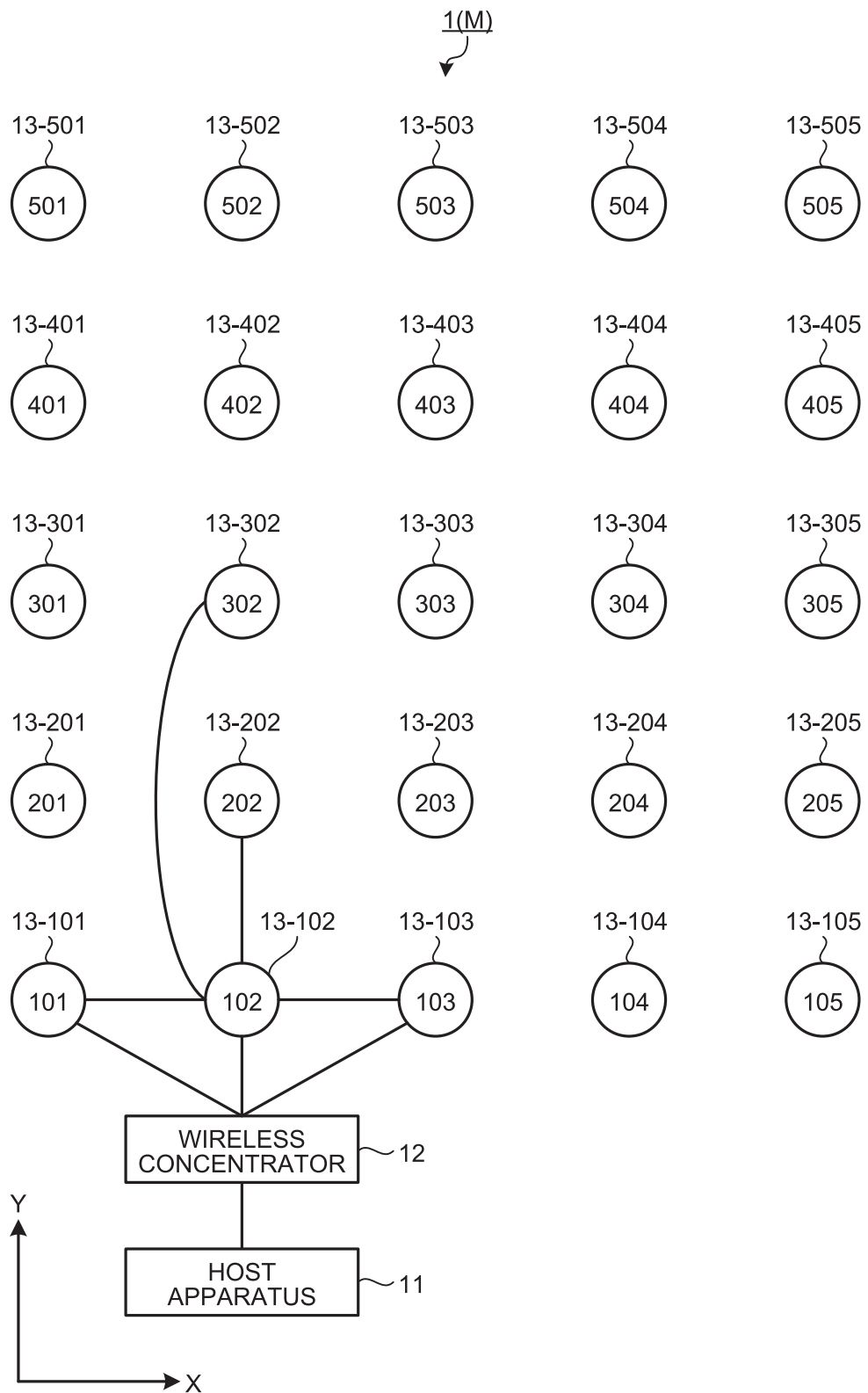


FIG.29

WIRELESS ADDRESS	PRESENCE OR ABSENCE OF INVESTIGATION	ESTIMATION	COMMUNICABLE WIRELESS ADDRESS
CONCENTRATOR	INVESTIGATED	-	101,102,103
101	RESPONDED		CONCENTRATOR,102
102	INVESTIGATED	-	CONCENTRATOR, 101,103,202,302
103	RESPONDED		CONCENTRATOR,102
202	RESPONDED		102
302	RESPONDED		102

FIG.30

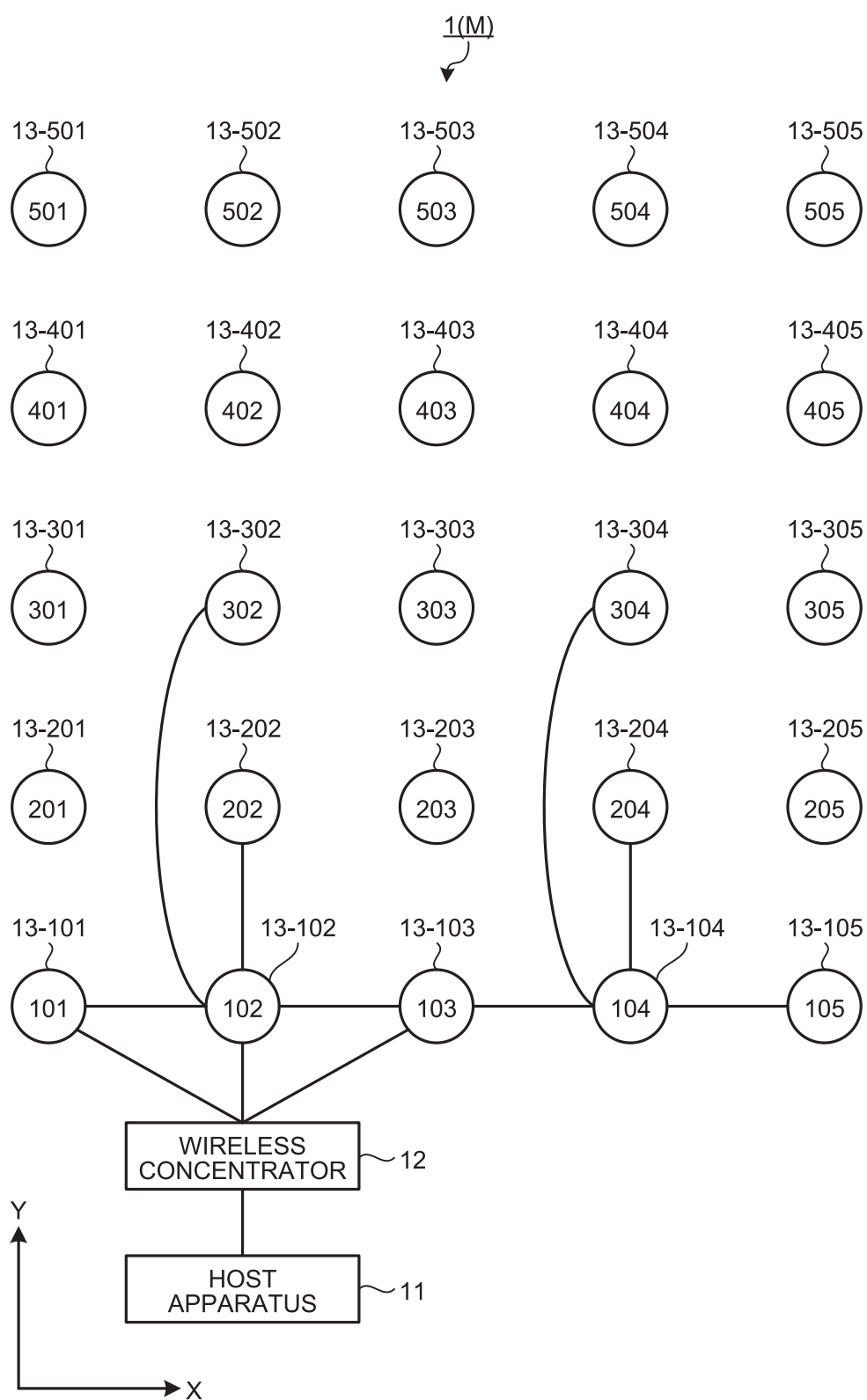


FIG.31

WIRELESS ADDRESS	PRESENCE OR ABSENCE OF INVESTIGATION	ESTIMATION	COMMUNICABLE WIRELESS ADDRESS
CONCENTRATOR	INVESTIGATED	-	101,102,103
101	RESPONDED		CONCENTRATOR,102
102	INVESTIGATED	-	CONCENTRATOR,101,103,202,302
103	RESPONDED		CONCENTRATOR,102,104
104	INVESTIGATED	-	103,105,204,304
105	RESPONDED		104
202	RESPONDED		102
204	RESPONDED		104
302	RESPONDED		102
304	RESPONDED		104

FIG.32

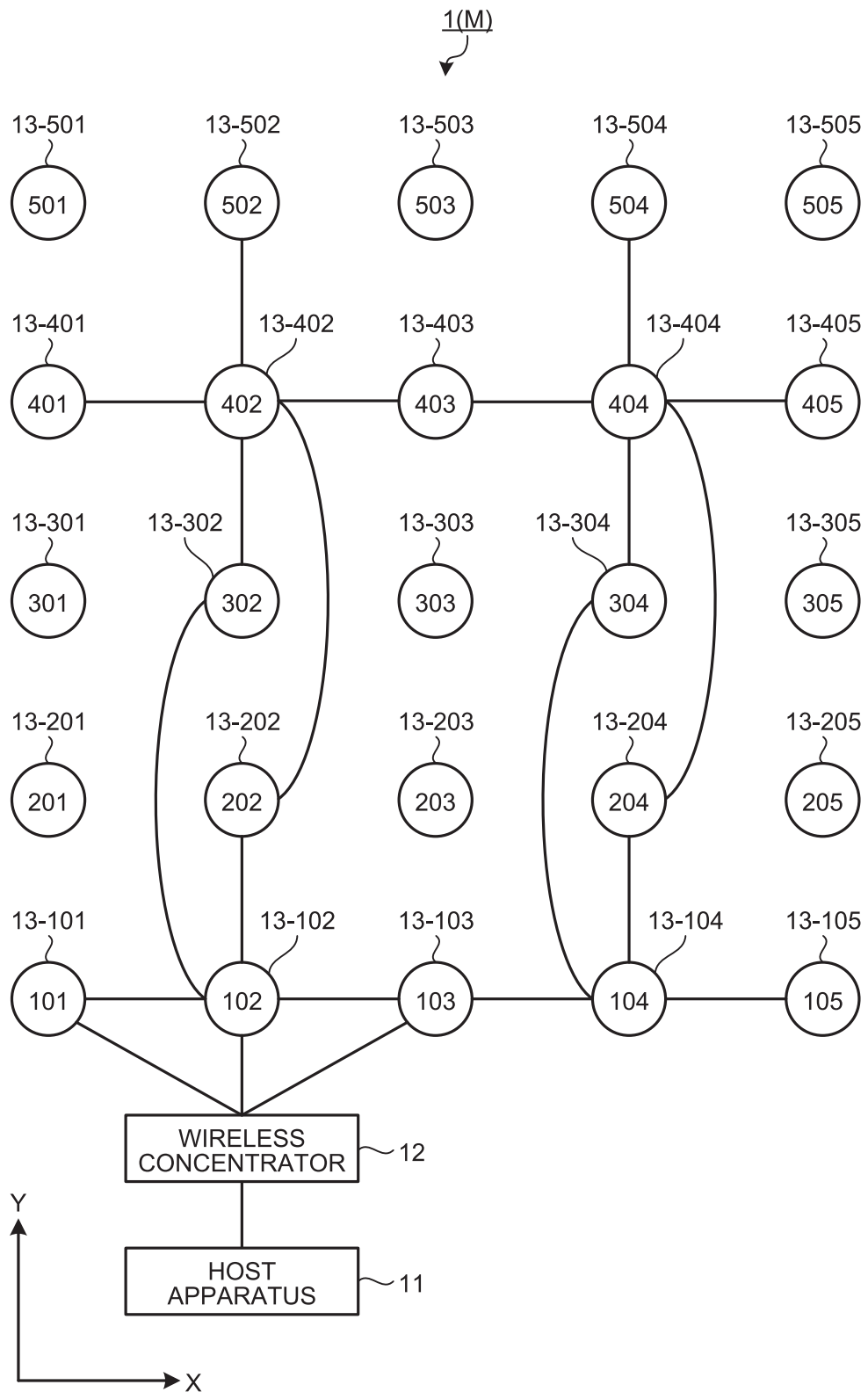


FIG.33

WIRELESS ADDRESS	PRESENCE OR ABSENCE OF INVESTIGATION	ESTIMATION	COMMUNICABLE WIRELESS ADDRESS
CONCENTRATOR	INVESTIGATED	-	101,102,103
101	RESPONDED	ESTIMATED	CONCENTRATOR,102
102	INVESTIGATED	-	CONCENTRATOR, 101,103,202,302
103	RESPONDED		CONCENTRATOR,102,104
104	INVESTIGATED	-	103,105,204,304
105	RESPONDED		104
201	-		101
202	RESPONDED		102,402
204	RESPONDED		104,404
301	-		101
302	RESPONDED		102,402
304	RESPONDED		104,404
401	RESPONDED		402
402	INVESTIGATED	-	202,302,401,403,502
403	RESPONDED		402,404
404	INVESTIGATED	-	204,304,403,405,504
405	RESPONDED		404
502	RESPONDED		402
504	RESPONDED		404

FIG.34

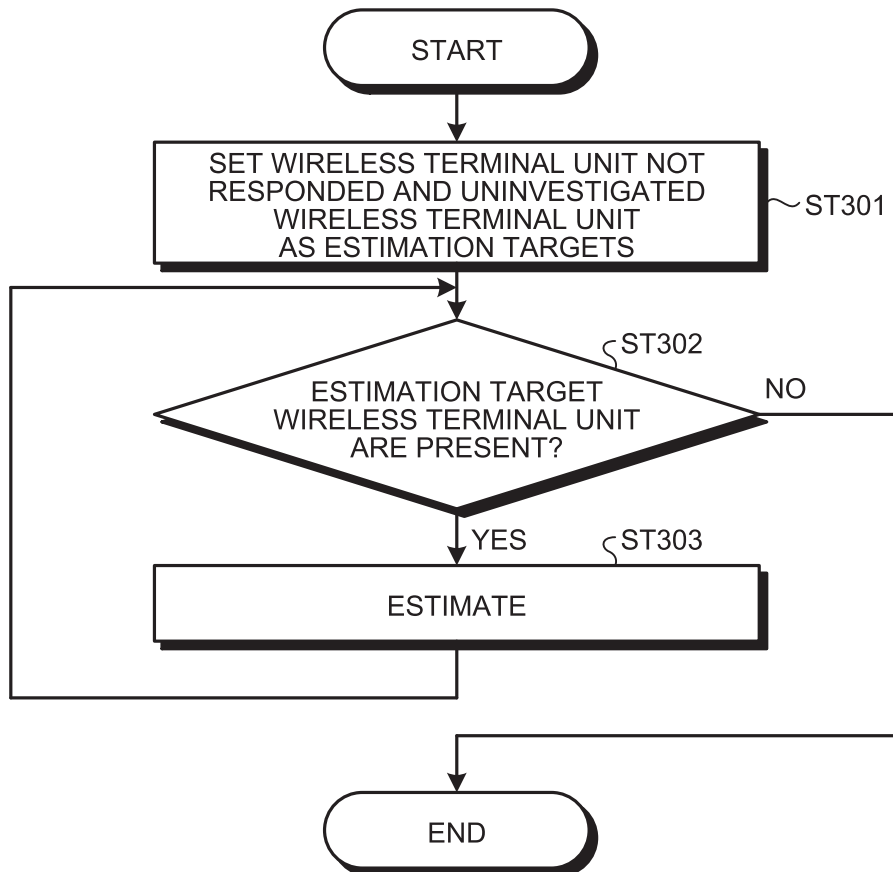


FIG.35

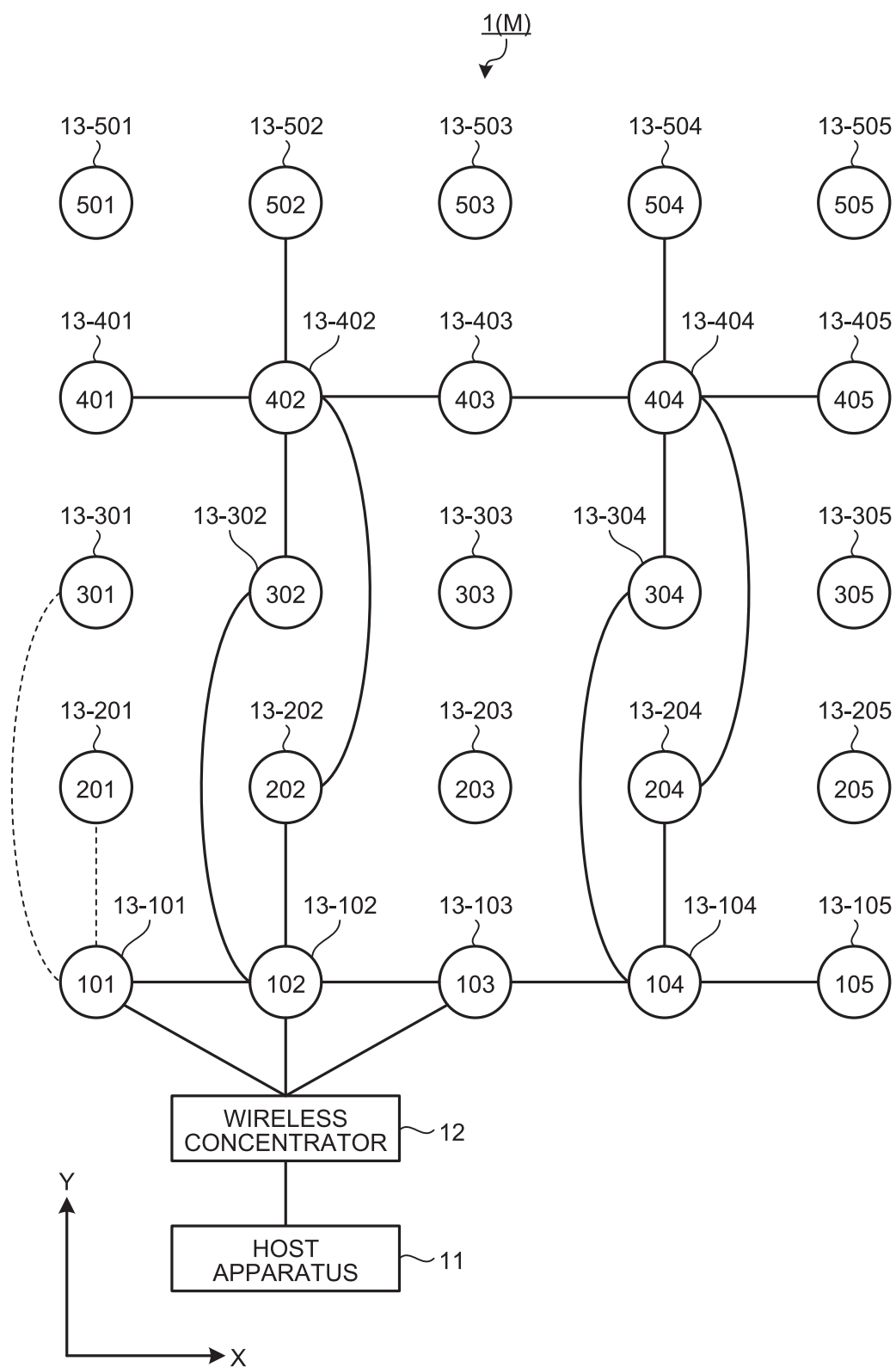


FIG.36

WIRELESS ADDRESS	PRESENCE OR ABSENCE OF INVESTIGATION	ESTIMATION	COMMUNICABLE WIRELESS ADDRESS
CONCENTRATOR	INVESTIGATED	-	101,102,103
101	RESPONDED	ESTIMATED	CONCENTRATOR,102,201,301
102	INVESTIGATED	-	CONCENTRATOR, 101,103,202,302
103	RESPONDED		CONCENTRATOR,102,104
104	INVESTIGATED	-	103,105,204,304
105	RESPONDED		104
201	-		101
202	RESPONDED		102,402
204	RESPONDED		104,404
301	-		101
302	RESPONDED		102,402
304	RESPONDED		104,404
401	RESPONDED		402
402	INVESTIGATED	-	202,302,401,403,502
403	RESPONDED		402,404
404	INVESTIGATED	-	204,304,403,405,504
405	RESPONDED		404
502	RESPONDED		402
504	RESPONDED		404

FIG.37

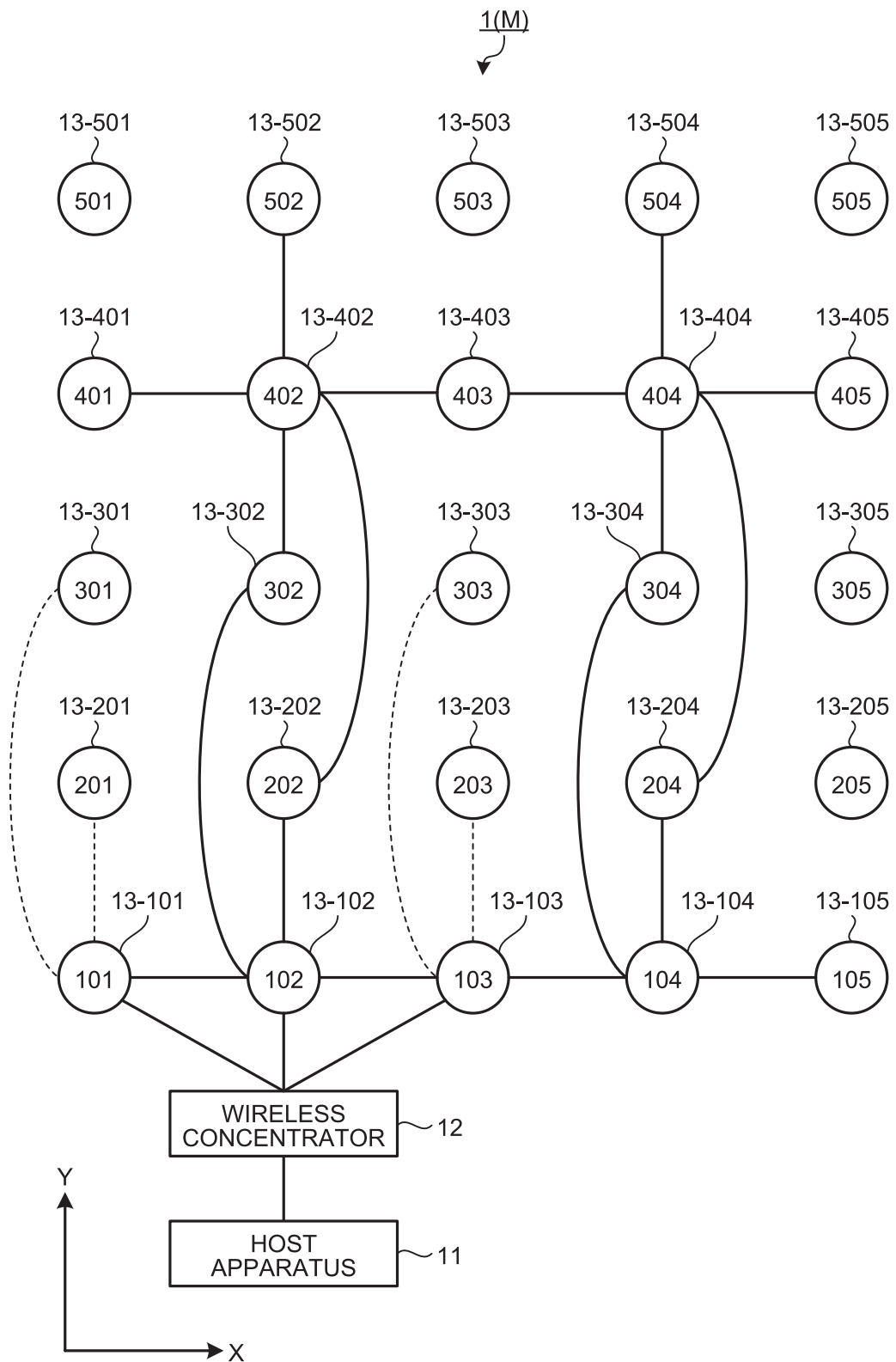


FIG.38

WIRELESS ADDRESS	PRESENCE OR ABSENCE OF INVESTIGATION	ESTIMATION	COMMUNICABLE WIRELESS ADDRESS
CONCENTRATOR	INVESTIGATED	-	101,102,103
101	RESPONDED	ESTIMATED	CONCENTRATOR,102,201,301
102	INVESTIGATED	-	CONCENTRATOR, 101,103,202,302
103	RESPONDED	ESTIMATED	CONCENTRATOR, 102,104,203,303
104	INVESTIGATED	-	103,105,204,304
105	RESPONDED		104
201	-		101
202	RESPONDED		102,402
203	-		103
204	RESPONDED		104,404
301	-		101
302	RESPONDED		102,402
303	-		103
304	RESPONDED		104,404
401	RESPONDED		402
402	INVESTIGATED	-	202,302,401,403,502
403	RESPONDED		402,404
404	INVESTIGATED	-	204,304,403,405,504
405	RESPONDED		404
502	RESPONDED		402
504	RESPONDED		404

FIG.39

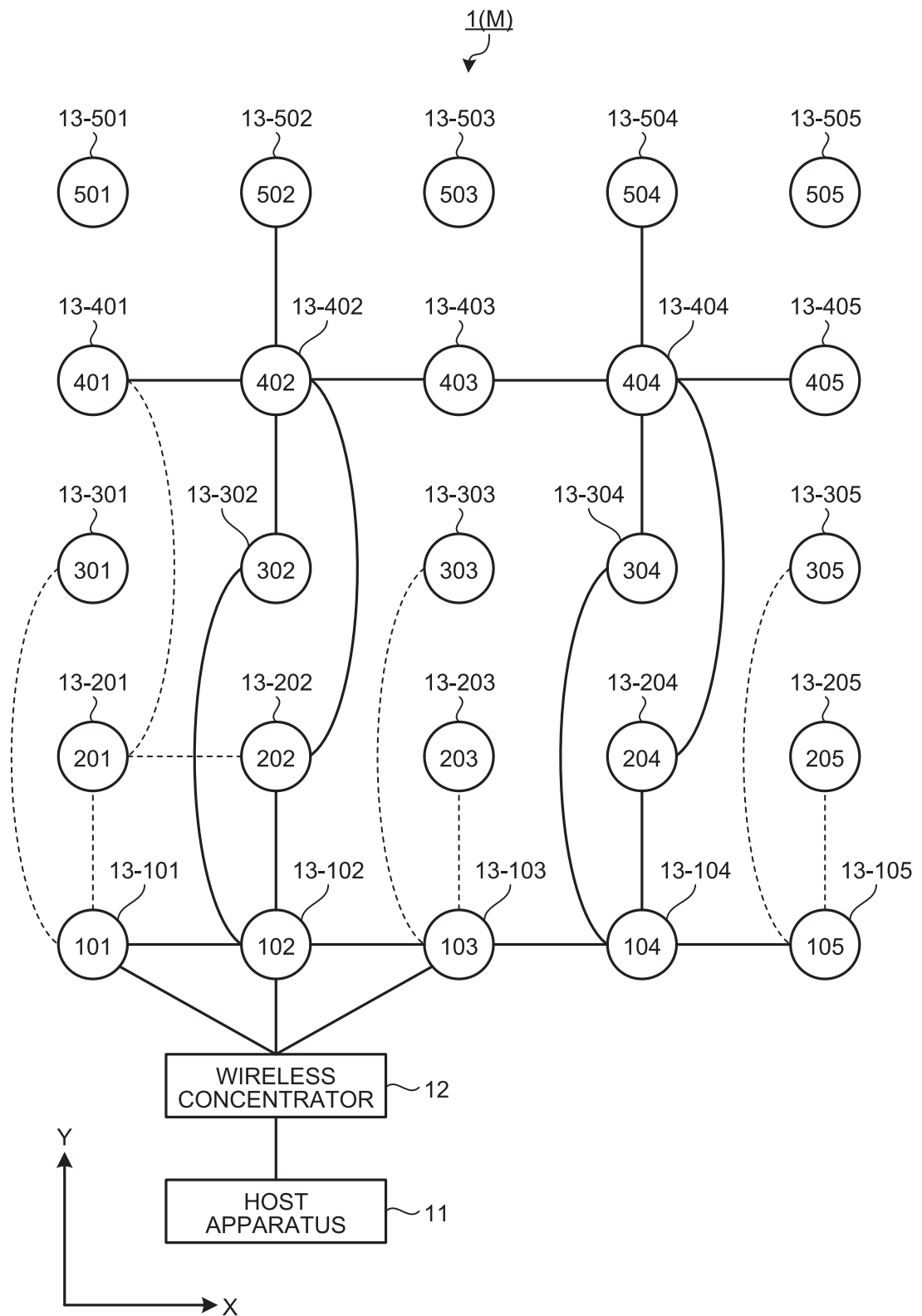
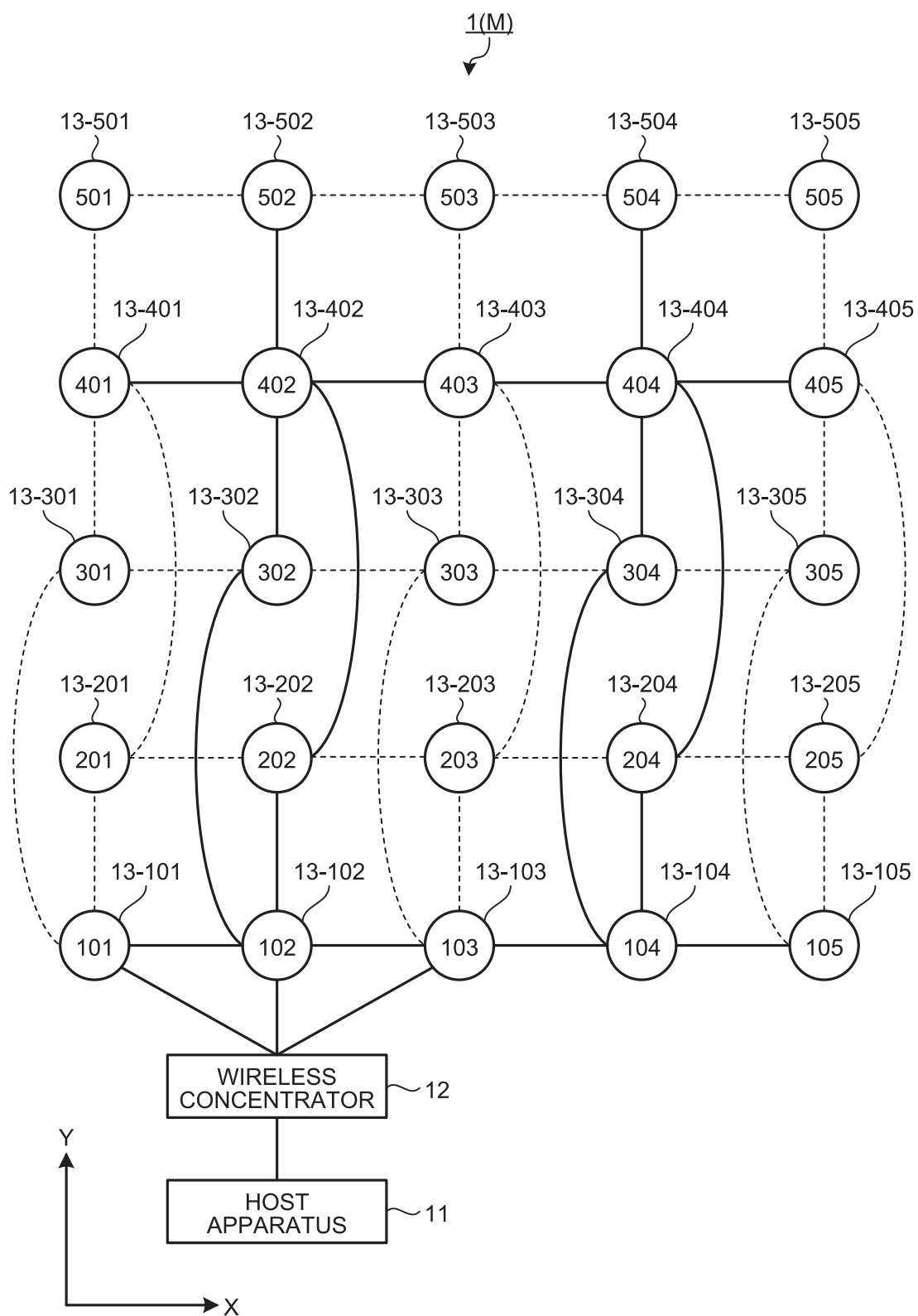


FIG.40

WIRELESS ADDRESS	PRESENCE OR ABSENCE OF INVESTIGATION	ESTIMATION	COMMUNICABLE WIRELESS ADDRESS
CONCENTRATOR	INVESTIGATED	-	101,102,103
101	RESPONDED	ESTIMATED	CONCENTRATOR,102,201,301
102	INVESTIGATED	-	CONCENTRATOR, 101,103,202,302
103	RESPONDED	ESTIMATED	CONCENTRATOR, 102,104,203,303
104	INVESTIGATED	-	103,105,204,304
105	RESPONDED	ESTIMATED	104,205,305
201	NOT INVESTIGATED	ESTIMATED	101,202,401
202	RESPONDED		102,201,402
203	-		103
204	RESPONDED		104,404
205	-		105
301	-		101
302	RESPONDED		102,402
303	-		103
304	RESPONDED		104,404
305	-		101
401	RESPONDED		402,201
402	INVESTIGATED	-	202,302,401,403,502
403	RESPONDED		402,404
404	INVESTIGATED	-	204,304,403,405,504
405	RESPONDED		404
502	RESPONDED		402
504	RESPONDED		404

FIG.41



36/43

FIG.42

WIRELESS ADDRESS	PRESENCE OR ABSENCE OF INVESTIGATION	ESTIMATION	COMMUNICABLE WIRELESS ADDRESS
CONCENTRATOR	INVESTIGATED	-	101,102,103
101	RESPONDED	ESTIMATED	CONCENTRATOR,102,201,301
102	INVESTIGATED	-	CONCENTRATOR,101,103,202,302
103	RESPONDED	ESTIMATED	CONCENTRATOR,102,104,203,303
104	INVESTIGATED	-	103,105,204,304
105	RESPONDED	ESTIMATED	104,205,305
201	NOT INVESTIGATED	ESTIMATED	101,202,401
202	RESPONDED	ESTIMATED	102,201,203,402
203	-	ESTIMATED	103,202,204,403
204	RESPONDED	ESTIMATED	104,404,203,205
205	-	ESTIMATED	105,204,405
301	-	ESTIMATED	101,302,401
302	RESPONDED	ESTIMATED	102,402,301,303
303	-	ESTIMATED	103,302,304,403
304	RESPONDED	ESTIMATED	104,404,303,305
305	-	ESTIMATED	101,304,405
401	RESPONDED	ESTIMATED	402,201,301,501
402	INVESTIGATED	-	302,401,403,502
403	RESPONDED	ESTIMATED	402,404,203,303,503
404	INVESTIGATED	-	304,403,405,504
405	RESPONDED	ESTIMATED	404,205,305,504
501	-	ESTIMATED	401,502
502	RESPONDED	ESTIMATED	402,501,503
503	-	ESTIMATED	403,502,504
504	RESPONDED	ESTIMATED	404,503,505
505	-	ESTIMATED	504,405

FIG.43

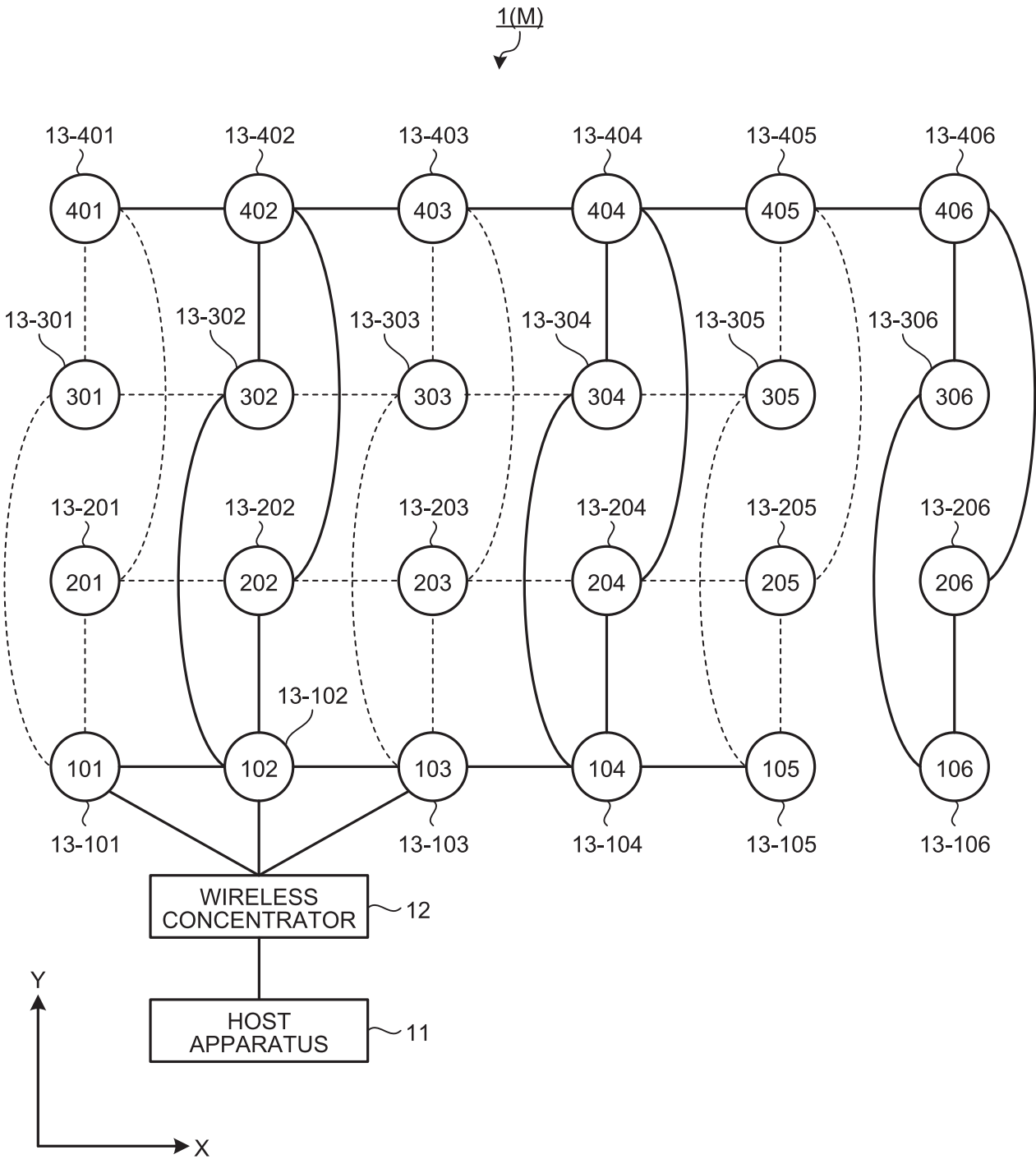


FIG.44

WIRELESS ADDRESS	PRESENCE OR ABSENCE OF INVESTIGATION	ESTIMATION	COMMUNICABLE WIRELESS ADDRESS
CONCENTRATOR	INVESTIGATED	-	101,102,103
101	RESPONDED	ESTIMATED	CONCENTRATOR,102,201,301
102	INVESTIGATED	-	CONCENTRATOR,101,103,202,302
103	RESPONDED	ESTIMATED	CONCENTRATOR,102,104,203,303
104	INVESTIGATED	-	103,105,204,304
105	RESPONDED	ESTIMATED	104,205,305
106	INVESTIGATED	-	206,306
201	NOT INVESTIGATED	ESTIMATED	101,202,401
202	RESPONDED	ESTIMATED	102,201,203,402
203	-	ESTIMATED	103,202,204,403
204	RESPONDED	ESTIMATED	104,404,203,205
205	-	ESTIMATED	105,204,405
206	RESPONDED	NONE	106,406
301	-	ESTIMATED	101,302,401
302	RESPONDED	ESTIMATED	102,402,301,303
303	-	ESTIMATED	103,302,304,403
304	RESPONDED	ESTIMATED	104,404,303,305
305	-	ESTIMATED	105,304,405
306	RESPONDED	NONE	106,406
401	RESPONDED	ESTIMATED	402,201,301
402	INVESTIGATED	-	202,302,401,403
403	RESPONDED	ESTIMATED	402,404,203,303
404	INVESTIGATED	-	204,304,403,405
405	RESPONDED	ESTIMATED	404,406,205,305
406	INVESTIGATED	-	405

FIG.45

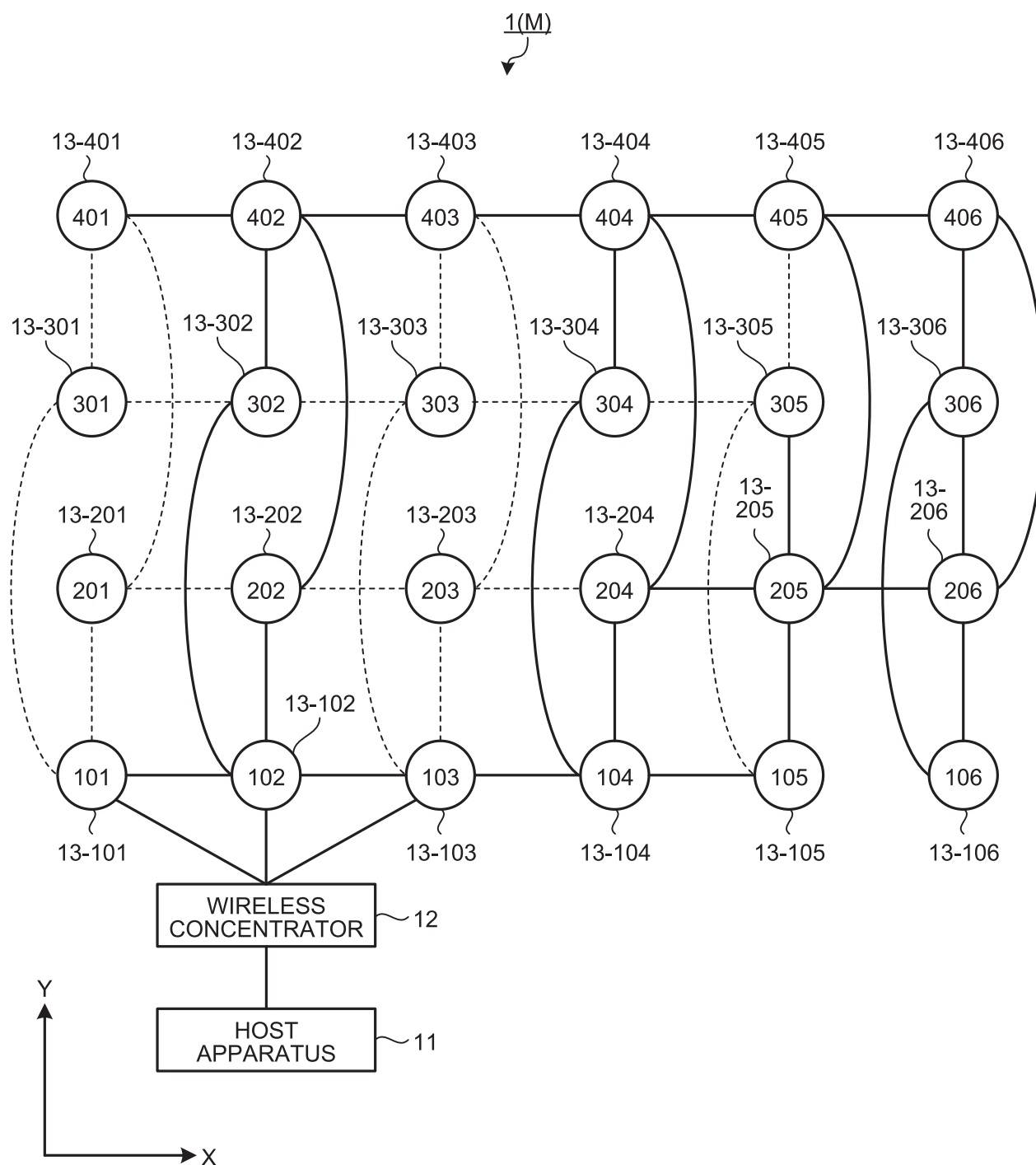


FIG.46

WIRELESS ADDRESS	PRESENCE OR ABSENCE OF INVESTIGATION	ESTIMATION	COMMUNICABLE WIRELESS ADDRESS
CONCENTRATOR	INVESTIGATED	-	101,102,103
101	RESPONDED	ESTIMATED	CONCENTRATOR,102,201,301
102	INVESTIGATED	-	CONCENTRATOR, 101,103,202,302
103	RESPONDED	ESTIMATED	CONCENTRATOR, 102,104,203,303
104	INVESTIGATED	-	103,105,204,304
105	RESPONDED	ESTIMATED	104,205,305
106	INVESTIGATED	-	206,306
201	NOT INVESTIGATED	ESTIMATED	101,202,401
202	RESPONDED	ESTIMATED	102,201,203,402
203	-	ESTIMATED	103,202,204,403
204	RESPONDED	ESTIMATED	104,404,203,205
205	INVESTIGATED	-	105,204,206,405,305
206	RESPONDED		106,205,406
301	-	ESTIMATED	101,302,401
302	RESPONDED	ESTIMATED	102,402,301,303
303	-	ESTIMATED	103,302,304,403
304	RESPONDED	ESTIMATED	104,404,303,305
305	-	ESTIMATED	105,304,405
306	RESPONDED	NONE	106,406
401	RESPONDED	ESTIMATED	402,201,301
402	INVESTIGATED	-	202,302,401,403
403	RESPONDED	ESTIMATED	402,404,203,303
404	INVESTIGATED	-	204,304,403,405
405	RESPONDED	ESTIMATED	404,406,205,305
406	INVESTIGATED	-	405

FIG.47

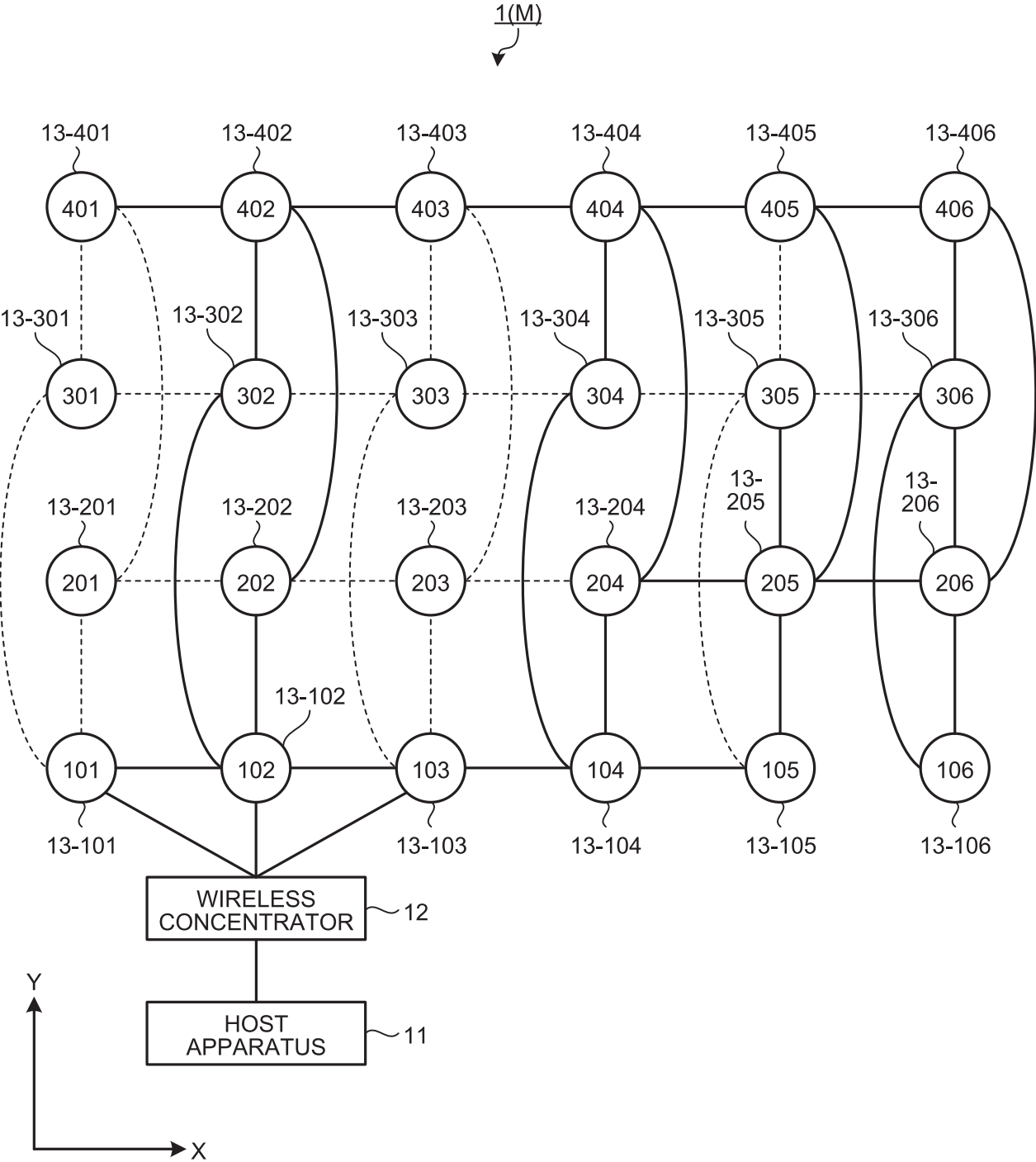


FIG.48

WIRELESS ADDRESS	PRESENCE OR ABSENCE OF INVESTIGATION	ESTIMATION	COMMUNICABLE WIRELESS ADDRESS
CONCENTRATOR	INVESTIGATED	-	101,102,103
101	RESPONDED	ESTIMATED	CONCENTRATOR,102,201,301
102	INVESTIGATED	-	CONCENTRATOR,101,103,202,302
103	RESPONDED	ESTIMATED	CONCENTRATOR,102,104,203,303
104	INVESTIGATED	-	103,105,204,304
105	RESPONDED	ESTIMATED	104,205,305
106	INVESTIGATED	-	206,306
201	NOT INVESTIGATED	ESTIMATED	101,202,401
202	RESPONDED	ESTIMATED	102,201,203,402
203	-	ESTIMATED	103,202,204,403
204	RESPONDED	ESTIMATED	104,404,203,205
205	INVESTIGATED	-	105,204,206,405,305
206	RESPONDED	ESTIMATED	106,205,406
301	-	ESTIMATED	101,302,401
302	RESPONDED	ESTIMATED	102,402,301,303
303	-	ESTIMATED	103,302,304,403
304	RESPONDED	ESTIMATED	104,404,303,305
305	-	ESTIMATED	105,304,405
306	RESPONDED	ESTIMATED	106,406,305
401	RESPONDED	ESTIMATED	402,201,301
402	INVESTIGATED	-	202,302,401,403
403	RESPONDED	ESTIMATED	402,404,203,303
404	INVESTIGATED	-	204,304,403,405
405	RESPONDED	ESTIMATED	404,406,205,305
406	INVESTIGATED	-	405

FIG.49

	DISTANCE IN X-AXIS DIRECTION	DISTANCE IN Y-AXIS DIRECTION
ROOM NO. 101	D_{X-101}	D_{Y-101}
ROOM NO. 102	D_{X-102}	D_{Y-102}
ROOM NO. 103	D_{X-103}	D_{Y-103}
⋮	⋮	⋮
ROOM NO. 504	D_{X-504}	D_{Y-504}
ROOM NO. 505	D_{X-505}	D_{Y-505}